Limited Asbestos and Lead Paint Survey Report

Merryfield Hall

1600 SW Monroe Ave

Corvallis, Oregon

Prepared for:

Oregon State University

December 2024
Project No.: 24010783

3500 CHAD DRIVE, SUITE 100, EUGENE, OR 97408 ▪ 541.686.8684 MAIN ▪ 866.727.0140 FAX ▪ PBSUSA.COM

GENERAL INFORMATION

BUILDING DATA
Merryfield Hall
1600 SW Monroe Ave
Corvallis, Oregon

CLIENT DATA
OSU Facilities Services
129 Oak Creek Building
3015 SW Western Boulevard
Corvallis, Oregon 97333

BACKGROUND:
The 27,400 -square foot Merryfield Hall was constructed circa 1908 and consists of two single story lab/classroom wings and one two-story center office wing. The building houses academic classrooms, labs and office spaces. PBS conducted a limited Asbestos and Lead Paint Survey at this site in 2017.

SURVEY SCOPE
PBS Engineering and Environmental, LLC (PBS) has performed a limited asbestos and lead paint survey within portions of Merryfield Hall located at 1600 SW Monroe Ave on the Oregon State University Campus in Corvallis, Oregon. The survey was conducted in support of a planned renovation project in the North wing of the building and was performed in general accordance with OSHA regulations in 29 CFR 1910.1001 and Oregon Department of Environmental Quality (DEQ) regulations in OAR 340-248-0270. Based on the information gathered during the site inspection and laboratory analysis, this report contains the following information:

- A summary of asbestos-containing materials discovered during the inspection, including a material description and location of each identified asbestos-containing material (ACM);
- A summary of lead paint sampling;
- A sample inventory listing the sample number, location, material description, and laboratory results for each sample;
- Laboratory analysis reports and chain of custody documentation;
- 2017 Survey Documentation
- Inspector(s) Certification

Asbestos
PBS endeavored to locate all suspect asbestos-containing materials within accessible interior and exterior areas of the anticipated work area; however, additional suspect asbestos-containing materials may be concealed in areas that were inaccessible during the survey. If additional suspect materials are uncovered during renovation or demolition activities that are not identified in this report, testing should be performed prior to impact. This survey was conducted to identify and sample accessible suspect asbestos-containing building materials, and it is not considered an exhaustive survey of every building material.

Lead Paint

PBS collected bulk samples from representative painted surfaces from the anticipated work area interior and exterior. The samples were analyzed for lead using FAA (flame atomic absorption). No attempt was made to determine the paint history of the components that were sampled. The lead paint testing conducted during this survey was for site lead hazard characterization purposes and was not a surface-by-surface inspection of every painted building component.

Per OSU direction, PBS' investigation was limited to the following rooms:

- 107
- 108
- 109
- 109A
- 110
- 110A
- 111

Please note that PBS was unable to gain access to room 107 during this survey. However, room 107 was included in PBS' Asbestos and Lead Paint Survey completed in 2017. Results of that Asbestos and Lead Paint Survey in regard to building materials within room 107 will be included in the tables below.

Certification

PBS has conducted a physical inspection of Merryfield Hall located at 1600 SW Monroe Ave in Corvallis, Oregon, compiled this report consistent with the survey scope, and certifies that the information is correct and accurate within the standards of professional quality and contractual obligations.

Aaron LeFore
Inspector/Industrial Hygienist
Accreditation: IR0-24-7318B

Digitally signed by Aaron LeFore
Date: 2024.12.06 10:29:03 -08'00'

Signature Date

Reviewed by: JH

INSPECTION SUMMARY

DATES	SURVEYED BY	ACTIVITY
October 18, 2024	Aaron LeFore	Materials Inventory and Bulk Sample Collection

PBS Engineering and Environmental, Inc. has investigated accessible areas of the anticipated work area located at 1600 SW Western Blvd to locate suspect asbestos-containing building materials (ACBM). The scope of work was limited to interior accessible areas. The findings are listed below.

ASBESTOS MATERIALS

The following materials tested positive, or, based on the experience of PBS field personnel, were not tested and should be considered asbestos-containing. Materials that had mixed results are considered positive. Materials not sampled may contain asbestos and should be tested to verify asbestos content prior to impact through demolition, renovation, etc.

(+) Tested Positive, (M) Mixed Results, (P) Presumed Positive, (T) Previously Tested Positive

Result	Material	Location	Detail
(+)	Window Frame Selant, off-white and tan	Exterior window frames throughout survey area	Non-Friable/480 LF
(+)	Door Frame Sealant, off-white and tan	Classroom 108 & 110, South exterior door frames	Non-Friable/80 LF

MATERIALS WHICH TESTED NEGATIVE FOR ASBESTOS

The following materials tested negative based on ASHARA sampling minimums and testing by NVLAP participating laboratories. Although no asbestos was detected, it is possible that further sampling could indicate asbestos content.

(-) Tested Negative, (P) Previously Tested Negative

	Material	Location
(-)	Brick, red/Mortar, grey	Interior and exterior perimeter walls throughout survey area
(-)	Plaster Skimcoat, grey	Lower two feet of interior perimeter walls throughout rooms, 108, 109, 109A, 110, 110A, 111

	Material	Location
(-)	Cellulose Board, brown compressed	Interior demising walls, 110A Ceilings throughout, survey area Concealed above lay in ceiling tiles in rooms 108,109,109A
(-/P)	Lay-in Ceiling Tiles, 2' x 4' pitted and fissured	Rooms 107[1], 108, 109, 109A
(-)	Mechanical Isolation Cloth, beige with dirt	Attic above rooms 110 and 109A
(-)	Blown-in Insulation, white	Attic above room 110
(-/P)	Gypsum Wallboard, off-white/Joint Compound, white	Walls within Wet Labs 107[1], 109, 109A,
(-/P)	Sheet Floor Covering, beige marble pattern with jute backing/Mastic, beige	Floors throughout Wet Labs; 107[1],109, 109A
(-)	Covebase, 4" black/Mastic, cream	Floors throughout Wet Labs; 109, 109A
(-)	Lab Counter, black	Counters throughout Wet Labs; 109, 109A
(-)	Sink Undercoating, grey	Sink basins throughout Wet Labs; 109, 109A
(-)	Stucco, grey cementitious	Exterior lower walls throughout
(-)	Window Glazing Compound, white	Exterior windows throughout Room 108, Exterior door transom windows.

Notes:

1. PBS was unable to access room 107 during this survey. PBS did sample building materials within this area as part of an Asbestos and Lead Paint Survey completed in 2017.

All asbestos bulk samples were collected by an EPA AHERA accredited inspector and analyzed using Polarized Light Microscopy (PLM) with dispersion staining. Samples were submitted under chain of custody to NVL Labs in Seattle, WA (NVLAP # 102063-0) for analysis. The laboratory analysis reports are attached to this report.

Asbestos Regulatory Issues

The State of Oregon Department of Environmental Quality (DEQ) and United States Environmental Protection Agency (EPA) regulations require proper removal and handling of asbestos-containing building materials (ACBM) by a licensed and trained asbestos abatement contractor prior to the

renovation or demolition of buildings. In addition, Oregon-OSHA has specific requirements when workers may encounter or disturb ACBM or when ACBM is removed.

The EPA, DEQ, and OSHA all define ACBM as "any material containing more than one percent asbestos."

In 1994, Oregon-OSHA adopted federal regulation governing asbestos (29CFR Part 1926.1101). These regulations have made significant changes in work procedures and how asbestos-containing materials are removed. OSHA believes that the single biggest problem is to workers who unknowingly or improperly disturb ACBM. Hazard communication, training, personal protection, work practices, exposure monitoring, and recordkeeping are all major components of the regulation. Oregon Administrative Rules-340, Division 32 and 33, also covers asbestos abatement requirements, removal notifications, licensing, and certifications of contractors.

Reference documents for the removal of asbestos-containing materials include the following:

1. Oregon Occupational Safety and Health Administration (OAR-437, 1926.1101 Asbestos)
2. Department of Environmental Quality (OAR-340, Division 248)

LEAD-CONTAINING PAINT

Lead Paint Summary

Paint chip samples were collected from representative interior painted building components within the work area. The samples represent the facility's major painted building components. The samples were submitted to NVL Laboratories, Inc. in Seattle, Washington (AIHA #101861) and analyzed for lead content by atomic absorption.

Laboratory analytical results indicated the presence of lead in all 6 paint-chip samples collected, with concentrations ranging from 1,300 to 180,000 parts per million (ppm). Refer to the attached lead sample inventory for additional details regarding sample locations and laboratory analytical results. For reference, the Environmental Protection Agency (EPA) uses 5,000 ppm as the threshold limit for the definition of lead-based paint. Under OSHA, any amount of lead triggers the OSHA Lead in Construction Standard. Lead safe work practices should always be employed when impacting paint that contains lead in any concentration.

A summary of painted surfaces in which lead was detected is presented in the table below:

Location (Feature)	Material Substrate and Paint Color
Attic at 110 West wall	Paint, Brown/Tan on brick substrate
Wet Lab 109 window frame*	Paint, White on wood substrate
Classroom 108 South wall	Paint, White on brick substrate
Exterior South wall under window*	Paint, Tan on stucco substrate
Exterior South windowsill *	Paint, Brown on wood substrate

Location (Feature)	Material Substrate and Paint Color
Exterior Classroom 108 door*	Paint, Brown on wood substrate

*Lead-based paint (exceeds 5,000 ppm)

Disposal

According to Oregon DEQ's Hazardous Waste/Toxics Reduction Policy Clarification, disposal of building demolition waste coated with lead-based paint generally will not require a hazardous waste determination (i.e., toxicity characteristic leaching procedures [TCLP] testing) if demolition debris is disposed of at a DEQ-permitted solid waste landfill that meets the current design standards for municipal solid waste disposal facilities of 40 CFR Part 258.

Refer to the DEQ hazardous waste reduction policy and follow all requirements under the Oregon DEQ, Management of Building Demolition Waste, 97-002A for proper disposal of lead-based painted demolition waste.

This report is not suitable as a bid document or an asbestos abatement design. The purpose of this report is risk hazard communication only.

Code	Material		Location	Results	Lab
24010783-0001	Brick/Mortar		Room 111, at South wall		NVL Labs, Inc.
		Layer:	**Description:**	**Analysis:**	
		Layer 1	Red brittle material with paint	No Asbestos Detected	
		Layer 2	Light gray brittle sandy material	No Asbestos Detected	
24010783-0002	Brick/Mortar		Room 110, at North wall		NVL Labs, Inc.
		Layer:	**Description:**	**Analysis:**	
		Layer 1	Red brittle material with debris	No Asbestos Detected	
		Layer 2	Light gray brittle sandy material	No Asbestos Detected	
24010783-0003	Brick/Mortar		Room 109, at North wall		NVL Labs, Inc.
		Layer:	**Description:**	**Analysis:**	
		Layer 1	Red brittle material	No Asbestos Detected	
		Layer 2	Light gray brittle sandy material	No Asbestos Detected	
24010783-0004	Plaster Skimcoat		Room 111, at South wall below window		NVL Labs, Inc.
		Layer:	**Description:**	**Analysis:**	
		Layer 1	Gray brittle sandy material with paint and backing white powdery debris	No Asbestos Detected	
24010783-0005	Plaster Skimcoat		Room 110, at North wall below window		NVL Labs, Inc.
		Layer:	**Description:**	**Analysis:**	
		Layer 1	Gray brittle sandy material with paint and backing white powdery debris	No Asbestos Detected	
24010783-0006	Plaster Skimcoat		Room 109, at North wall below window		NVL Labs, Inc.
		Layer:	**Description:**	**Analysis:**	
		Layer 1	Gray brittle sandy material with paint and backing white powdery debris	No Asbestos Detected	
24010783-0007	Cellulose Board		Room 110 North demising wall at small northwest section		NVL Labs, Inc.
		Layer:	**Description:**	**Analysis:**	
		Layer 1	Tan compressed fibrous material	No Asbestos Detected	

Code	Material		Location	Results	Lab
24010783-0008	Cellulose Board		Room 110A, South demising wall		NVL Labs, Inc.
		Layer:	**Description:**	**Analysis:**	
		Layer 1	Tan compressed fibrous material	No Asbestos Detected	
24010783-0009	Cellulose Board		Room 110A, West demising wall		NVL Labs, Inc.
		Layer:	**Description:**	**Analysis:**	
		Layer 1	Tan compressed fibrous material	No Asbestos Detected	
24010783-0010	Cellulose Board		Room 110, West demising wall		NVL Labs, Inc.
		Layer:	**Description:**	**Analysis:**	
		Layer 1	Tan compressed fibrous material	No Asbestos Detected	
24010783-0011	Cellulose Ceiling		Attic above Room 110, center		NVL Labs, Inc.
		Layer:	**Description:**	**Analysis:**	
		Layer 1	Multi-layered tan compressed material with off-white surface	No Asbestos Detected	
24010783-0012	Cellulose Ceiling		Attic above Room 110, East		NVL Labs, Inc.
		Layer:	**Description:**	**Analysis:**	
		Layer 1	Multi-layered tan compressed material with off-white surface	No Asbestos Detected	
24010783-0013	Mechanical Isolation Cloth		Attic above Room 110 , East side on exhaust unit ducting		NVL Labs, Inc.
		Layer:	**Description:**	**Analysis:**	
		Layer 1	White woven fibrous material with brown powdery debris	No Asbestos Detected	
24010783-0014	Mechanical Isolation Cloth		Attic above Room 110 , East side on exhaust unit ducting		NVL Labs, Inc.
		Layer:	**Description:**	**Analysis:**	
		Layer 1	White woven fibrous material with brown powdery debris	No Asbestos Detected	
24010783-0015	Blown-in Insulation		Attic above Room 110 , East end		NVL Labs, Inc.
		Layer:	**Description:**	**Analysis:**	
		Layer 1	White fibrous material with debris	No Asbestos Detected	

Code	Material		Location	Results	Lab
24010783-0016	Blown-in Insulation		Attic above Room 110 , West end		NVL Labs, Inc.
		Layer:	**Description:**	**Analysis:**	
		Layer 1	White fibrous material with debris	No Asbestos Detected	
24010783-0017	Lay-in Ceiling Tile		Classroom 108, at attic access platform		NVL Labs, Inc.
		Layer:	**Description:**	**Analysis:**	
		Layer 1	Beige compressed fibrous material with paint	No Asbestos Detected	
24010783-0018	Lay-in Ceiling Tile		Wet Lab 109, center		NVL Labs, Inc.
		Layer:	**Description:**	**Analysis:**	
		Layer 1	Beige compressed fibrous material with paint	No Asbestos Detected	
24010783-0019	Lay-in Ceiling Tile		Wet Lab 109A, center		NVL Labs, Inc.
		Layer:	**Description:**	**Analysis:**	
		Layer 1	Beige compressed fibrous material with paint	No Asbestos Detected	
24010783-0020	Gypsum Wallboard/Joint Compound		Wet Lab 109, at North wall		NVL Labs, Inc.
		Layer:	**Description:**	**Analysis:**	
		Layer 1	Very thin layer white compacted powdery material with paint	No Asbestos Detected	
		Layer 2	White compacted powdery material with yellow fibrous mesh and paint	No Asbestos Detected	
		Layer 3	White crumbly chalky material with paper	No Asbestos Detected	
24010783-0021	Gypsum Wallboard/Joint Compound		Wet Lab 109A, at North wall		NVL Labs, Inc.
		Layer:	**Description:**	**Analysis:**	
		Layer 1	Very thin layer white compacted powdery material with paint	No Asbestos Detected	
		Layer 2	White compacted powdery material with yellow fibrous mesh and paint	No Asbestos Detected	
		Layer 3	White crumbly chalky material with paper	No Asbestos Detected	

Code	Material		Location	Results	Lab
24010783-0022	Lab Counter		Wet Lab 109A, center		NVL Labs, Inc.
		Layer:	**Description:**	**Analysis:**	
		Layer 1	Small piece black brittle material	No Asbestos Detected	
24010783-0023	Sheet Floor Covering		Wet Lab 109, at South wall		NVL Labs, Inc.
		Layer:	**Description:**	**Analysis:**	
		Layer 1	Light beige soft brittle material	No Asbestos Detected	
		Layer 2	Backing beige mastic with tan fibrous mesh	No Asbestos Detected	
24010783-0024	Sheet Floor Covering		Wet Lab 109A, at South wall		NVL Labs, Inc.
		Layer:	**Description:**	**Analysis:**	
		Layer 1	Light beige soft brittle material	No Asbestos Detected	
		Layer 2	Backing beige mastic with tan fibrous mesh pieces	No Asbestos Detected	
24010783-0025	Covebase/Mastic		Wet Lab 109, at South wall		NVL Labs, Inc.
		Layer:	**Description:**	**Analysis:**	
		Layer 1	Dark gray rubbery material	No Asbestos Detected	
		Layer 2	Backing off-white adhesive with paint and white powdery debris	No Asbestos Detected	
24010783-0026	Covebase/Mastic		Wet Lab 109A, at South wall		NVL Labs, Inc.
		Layer:	**Description:**	**Analysis:**	
		Layer 1	Dark gray rubbery material	No Asbestos Detected	
		Layer 2	Backing off-white adhesive with paint and white powdery debris	No Asbestos Detected	
24010783-0027	Sink Undercoating		Wet Lab 109, at West wall		NVL Labs, Inc.
		Layer:	**Description:**	**Analysis:**	
		Layer 1	White loose material	No Asbestos Detected	
		Layer 2	Off-white adhesive with black asphaltic mastic	No Asbestos Detected	
24010783-0028	Stucco		Exterior South wall, below Classroom 108 window		NVL Labs, Inc.
		Layer:	**Description:**	**Analysis:**	
		Layer 1	Gray sandy material with paint	No Asbestos Detected	

Code	Material	Location	Results	Lab
24010783-0029	Window Frame Sealant	Exterior, Classroom 108 at South window frame		NVL Labs, Inc.
	Layer:	**Description:**	**Analysis:**	
	Layer 1	Off-white brittle material with paint and debris	3% Chrysotile	
24010783-0030	Window Frame Sealant	Exterior, Classroom 110 at South window frame		NVL Labs, Inc.
	Layer:	**Description:**	**Analysis:**	
	Layer 1	Off-white brittle material with paint and debris	4% Chrysotile	
24010783-0031	Door Frame Sealant	Exterior, Classroom 108 at South exterior door		NVL Labs, Inc.
	Layer:	**Description:**	**Analysis:**	
	Layer 1	Off-white brittle material with paint and debris	4% Chrysotile	
24010783-0032	Door Frame Sealant	Exterior, Classroom 110 at South exterior door		NVL Labs, Inc.
	Layer:	**Description:**	**Analysis:**	
	Layer 1	Off-white brittle material with paint and debris	3% Chrysotile	
24010783-0033	Window Glazing Compound	Exterior, Classroom 110 at South exterior windows		NVL Labs, Inc.
	Layer:	**Description:**	**Analysis:**	
	Layer 1	White brittle material with paint	No Asbestos Detected	
24010783-0034	Window Glazing Compound	Exterior, Classroom 108 at South door at upper window transom		NVL Labs, Inc.
	Layer:	**Description:**	**Analysis:**	
	Layer 1	White brittle material with paint	No Asbestos Detected	

Code	Material	Analysis	Location	Lab
PAINT				
LB24010783-1001	Paint, Brown/Tan	1,300 ppm	Attic at 110 West wall on brick substrate	NVL Labs, Inc.
LB24010783-1002	Paint, White	38,000 ppm	Wet Lab 109 window frame on wood substrate	NVL Labs, Inc.
LB24010783-1003	Paint, White	1,300 ppm	Classroom 108 South wall on brick substrate	NVL Labs, Inc.
LB24010783-1004	Paint, Tan	30,000 ppm	Exerior South wall under windows on stucco substrate	NVL Labs, Inc.
LB24010783-1005	Paint, Brown	180,000 ppm	Exerior South windowsill on wood substrate	NVL Labs, Inc.
LB24010783-1006	Paint, Brown	55,000 ppm	Exterior Classroom 108 door on wood substrate	NVL Labs, Inc.

October 25, 2024

NVL
INDUSTRIAL HYGIENE SERVICES
LABORATORY + MANAGEMENT + TRAINING

Aaron Lefore
PBS Environmental - Eugene
3500 Chad Drive Suite 100
Eugene, OR 97408

RE: Bulk Asbestos Fiber Analysis; NVL Batch # 2419148.00

Client Project: 24010783 Task 0001
Location: Merryfield Hall

Dear Mr. Lefore,

Enclosed please find test results for the 34 sample(s) submitted to our laboratory for analysis on 10/22/2024.

Examination of these samples was conducted for the presence of identifiable asbestos fibers using polarized light microscopy (PLM) with dispersion staining in accordance with **U. S. EPA 40 CFR Appendix E to Subpart E of Part 763**, Interim Method for the Determination of Asbestos in Bulk Insulation Samples and **EPA 600/R-93/116**, Method for the Determination of Asbestos in Bulk Building Materials.

For samples containing more than one separable layer of materials, the report will include findings for each layer (labeled Layer 1 and Layer 2, etc. for each individual layer). The asbestos concentration in the sample is determined by calibrated visual estimation.

For those samples with asbestos concentrations between 1 and 10 percent based on visual estimation, the EPA recommends a procedure known as point counting (NESHAPS, 40 CFR Part 61). Point counting is a statistically more accurate means of quantification for samples with low concentrations of asbestos.

The detection limit for the calibrated visual estimation is <1%, 400 point counts is 0.25% and 1000 point counts is 0.1%

Samples are archived for two weeks following analysis. Samples that are not retrieved by the client are discarded after two weeks.

Thank you for using our laboratory services. Please do not hesitate to call if there is anything further we can assist you with.

Sincerely,

Munaf Khan, President/Laboratory Director

NVLAP
Testing
Lab Code: 102063-0

Enc.: Sample Results

Phone: 206 547.0100 | Fax: 206 634.1936 | Toll Free: 1.888.NVL.LABS (685.5227)
4708 Aurora Avenue North | Seattle, WA 98103-6516

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: PBS Environmental - Eugene
Address: 3500 Chad Drive Suite 100
Eugene, OR 97408

Attention: Mr. Aaron Lefore
Project Location: Merryfield Hall

Batch #: 2419148.00
Client Project #: 24010783 Task 0001
Date Received: 10/22/2024
Samples Received: 34
Samples Analyzed: 34
Method: EPA/600/R-93/116

Lab ID: 24114308 **Client Sample #: 24010783-0001**
Location: Merryfield Hall

Layer 1 of 2 **Description:** Red brittle material with paint

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Paint, Binder/Filler, Fine particles	None Detected ND	**None Detected ND**
Fine grains, Brick		

Layer 2 of 2 **Description:** Light gray brittle sandy material

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Concrete/Binder, Fine grains, Mineral grains	None Detected ND	**None Detected ND**

Lab ID: 24114309 **Client Sample #: 24010783-0002**
Location: Merryfield Hall

Layer 1 of 2 **Description:** Red brittle material with debris

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Binder/Filler, Fine grains, Fine particles	Cellulose 2%	**None Detected ND**
Brick, Debris		

Layer 2 of 2 **Description:** Light gray brittle sandy material

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Concrete/Binder, Fine grains, Mineral grains	None Detected ND	**None Detected ND**

Lab ID: 24114310 **Client Sample #: 24010783-0003**
Location: Merryfield Hall

Layer 1 of 2 **Description:** Red brittle material

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Binder/Filler, Fine particles, Fine grains	None Detected ND	**None Detected ND**
Brick		

Sampled by: Client
Analyzed by: Urooj Yousuf **Date:** 10/25/2024
Reviewed by: Munaf Khan **Date:** 10/25/2024

Munaf Khan, President/Laboratory Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and EPA 40 CFR Appendix E to Subpart E of Part 763 with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: PBS Environmental - Eugene
Address: 3500 Chad Drive Suite 100
Eugene, OR 97408

Attention: **Mr. Aaron Lefore**
Project Location: Merryfield Hall

Batch #: 2419148.00
Client Project #: 24010783 Task 0001
Date Received: 10/22/2024
Samples Received: 34
Samples Analyzed: 34
Method: EPA/600/R-93/116

Layer 2 of 2 **Description:** Light gray brittle sandy material

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Concrete/Binder, Fine grains, Mineral grains	None Detected ND	**None Detected ND**

Lab ID: 24114311 **Client Sample #: 24010783-0004**
Location: Merryfield Hall

Layer 1 of 1 **Description:** Gray brittle sandy material with paint and backing white powdery debris

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Paint, Binder/Filler, Fine grains	None Detected ND	**None Detected ND**
Mineral grains		

Lab ID: 24114312 **Client Sample #: 24010783-0005**
Location: Merryfield Hall

Layer 1 of 1 **Description:** Gray brittle sandy material with paint and backing white powdery debris

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Paint, Binder/Filler, Fine grains	None Detected ND	**None Detected ND**
Mineral grains		

Lab ID: 24114313 **Client Sample #: 24010783-0006**
Location: Merryfield Hall

Layer 1 of 1 **Description:** Gray brittle sandy material with paint and backing white powdery debris

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Paint, Binder/Filler, Fine grains	Cellulose <1%	**None Detected ND**
Mineral grains		

Lab ID: 24114314 **Client Sample #: 24010783-0007**
Location: Merryfield Hall

Sampled by: Client
Analyzed by: Urooj Yousuf **Date:** 10/25/2024
Reviewed by: Munaf Khan **Date:** 10/25/2024

Munaf Khan, President/Laboratory Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and EPA 40 CFR Appendix E to Subpart E of Part 763 with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: PBS Environmental - Eugene
Address: 3500 Chad Drive Suite 100
Eugene, OR 97408

Attention: **Mr. Aaron Lefore**
Project Location: Merryfield Hall

Batch #: 2419148.00
Client Project #: 24010783 Task 0001
Date Received: 10/22/2024
Samples Received: 34
Samples Analyzed: 34
Method: EPA/600/R-93/116

Layer 1 of 1 **Description:** Tan compressed fibrous material

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Binder/Filler, Fine particles	Cellulose 57%	**None Detected ND**

Lab ID: 24114315 **Client Sample #: 24010783-0008**
Location: Merryfield Hall

Layer 1 of 1 **Description:** Tan compressed fibrous material

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Binder/Filler, Fine particles	Cellulose 61%	**None Detected ND**

Lab ID: 24114316 **Client Sample #: 24010783-0009**
Location: Merryfield Hall

Layer 1 of 1 **Description:** Tan compressed fibrous material

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Binder/Filler, Fine particles	Cellulose 69%	**None Detected ND**

Lab ID: 24114317 **Client Sample #: 24010783-0010**
Location: Merryfield Hall

Layer 1 of 1 **Description:** Tan compressed fibrous material

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Binder/Filler, Fine particles	Cellulose 67%	**None Detected ND**

Lab ID: 24114318 **Client Sample #: 24010783-0011**
Location: Merryfield Hall

Layer 1 of 1 **Description:** Multi-layered tan compressed material with off-white surface

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Binder/Filler, Fine particles	Cellulose 89%	**None Detected ND**

Lab ID: 24114319 **Client Sample #: 24010783-0012**
Location: Merryfield Hall

Sampled by: Client
Analyzed by: Urooj Yousuf **Date:** 10/25/2024
Reviewed by: Munaf Khan **Date:** 10/25/2024

Munaf Khan, President/Laboratory Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and EPA 40 CFR Appendix E to Subpart E of Part 763 with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: PBS Environmental - Eugene
Address: 3500 Chad Drive Suite 100
Eugene, OR 97408

Attention: **Mr. Aaron Lefore**
Project Location: Merryfield Hall

Batch #: 2419148.00
Client Project #: 24010783 Task 0001
Date Received: 10/22/2024
Samples Received: 34
Samples Analyzed: 34
Method: EPA/600/R-93/116

Layer 1 of 1 **Description:** Multi-layered tan compressed material with off-white surface

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Binder/Filler, Fine particles	Cellulose 87%	**None Detected ND**

Lab ID: 24114320 **Client Sample #: 24010783-0013**
Location: Merryfield Hall

Layer 1 of 1 **Description:** White woven fibrous material with brown powdery debris

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Binder/Filler, Fine particles, Debris	Synthetic fibers 71%	**None Detected ND**

Lab ID: 24114321 **Client Sample #: 24010783-0014**
Location: Merryfield Hall

Layer 1 of 1 **Description:** White woven fibrous material with brown powdery debris

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Binder/Filler, Fine particles, Debris	Synthetic fibers 75%	**None Detected ND**

Lab ID: 24114322 **Client Sample #: 24010783-0015**
Location: Merryfield Hall

Layer 1 of 1 **Description:** White fibrous material with debris

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Binder/Filler, Fine particles, Glass beads	Glass fibers 88%	**None Detected ND**
Debris, Organic debris	Cellulose 6%	

Lab ID: 24114323 **Client Sample #: 24010783-0016**
Location: Merryfield Hall

Layer 1 of 1 **Description:** White fibrous material with debris

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Binder/Filler, Fine particles, Glass beads	Glass fibers 78%	**None Detected ND**

Sampled by: Client
Analyzed by: Urooj Yousuf **Date:** 10/25/2024
Reviewed by: Munaf Khan **Date:** 10/25/2024

Munaf Khan, President/Laboratory Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and EPA 40 CFR Appendix E to Subpart E of Part 763 with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: PBS Environmental - Eugene
Address: 3500 Chad Drive Suite 100
Eugene, OR 97408

Attention: **Mr. Aaron Lefore**
Project Location: Merryfield Hall

Batch #: 2419148.00
Client Project #: 24010783 Task 0001
Date Received: 10/22/2024
Samples Received: 34
Samples Analyzed: 34
Method: EPA/600/R-93/116

Debris, Organic debris	Cellulose	5%	

Lab ID: 24114324 **Client Sample #: 24010783-0017**
Location: Merryfield Hall

Layer 1 of 1 **Description:** Beige compressed fibrous material with paint

Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
Paint, Binder/Filler, Perlite	Cellulose	48%	**None Detected ND**
	Glass fibers	24%	

Lab ID: 24114325 **Client Sample #: 24010783-0018**
Location: Merryfield Hall

Layer 1 of 1 **Description:** Beige compressed fibrous material with paint

Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
Paint, Binder/Filler, Perlite	Cellulose	51%	**None Detected ND**
	Glass fibers	26%	

Lab ID: 24114326 **Client Sample #: 24010783-0019**
Location: Merryfield Hall

Layer 1 of 1 **Description:** Beige compressed fibrous material with paint

Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
Paint, Binder/Filler, Perlite	Cellulose	49%	**None Detected ND**
	Glass fibers	25%	

Lab ID: 24114327 **Client Sample #: 24010783-0020**
Location: Merryfield Hall

Layer 1 of 3 **Description:** Very thin layer white compacted powdery material with paint

Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
Paint, Binder/Filler, Fine grains	None Detected	ND	**None Detected ND**

Sampled by: Client
Analyzed by: Urooj Yousuf **Date:** 10/25/2024
Reviewed by: Munaf Khan **Date:** 10/25/2024

Munaf Khan, President/Laboratory Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and EPA 40 CFR Appendix E to Subpart E of Part 763 with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: PBS Environmental - Eugene
Address: 3500 Chad Drive Suite 100
Eugene, OR 97408

Attention: **Mr. Aaron Lefore**
Project Location: Merryfield Hall

Batch #: 2419148.00
Client Project #: 24010783 Task 0001
Date Received: 10/22/2024
Samples Received: 34
Samples Analyzed: 34
Method: EPA/600/R-93/116

Layer 2 of 3	**Description:** White compacted powdery material with yellow fibrous mesh and paint			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Paint, Binder/Filler, Fine grains	Cellulose	17%	**None Detected ND**
		Glass fibers	4%	
Layer 3 of 3	**Description:** White crumbly chalky material with paper			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Gypsum/Binder, Fine particles, Fine grains	Cellulose	19%	**None Detected ND**
		Glass fibers	1%	

Lab ID: 24114328 **Client Sample #: 24010783-0021**
Location: Merryfield Hall

Layer 1 of 3	**Description:** Very thin layer white compacted powdery material with paint			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Paint, Binder/Filler, Fine grains	None Detected	ND	**None Detected ND**
Layer 2 of 3	**Description:** White compacted powdery material with yellow fibrous mesh and paint			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Paint, Binder/Filler, Fine grains	Glass fibers	17%	**None Detected ND**
Layer 3 of 3	**Description:** White crumbly chalky material with paper			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Gypsum/Binder, Fine particles, Fine grains	Cellulose	19%	**None Detected ND**
		Glass fibers	1%	

Lab ID: 24114329 **Client Sample #: 24010783-0022**
Location: Merryfield Hall

Sampled by: Client
Analyzed by: Urooj Yousuf **Date:** 10/25/2024
Reviewed by: Munaf Khan **Date:** 10/25/2024

Munaf Khan, President/Laboratory Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and EPA 40 CFR Appendix E to Subpart E of Part 763 with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: PBS Environmental - Eugene
Address: 3500 Chad Drive Suite 100
Eugene, OR 97408

Attention: Mr. Aaron Lefore
Project Location: Merryfield Hall

Batch #: 2419148.00
Client Project #: 24010783 Task 0001
Date Received: 10/22/2024
Samples Received: 34
Samples Analyzed: 34
Method: EPA/600/R-93/116

Layer 1 of 1	**Description:** Small piece black brittle material			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Binder/Filler, Fine particles, Fine grains	None Detected	ND	**None Detected ND**

Lab ID: 24114330 **Client Sample #: 24010783-0023**
Location: Merryfield Hall

Layer 1 of 2	**Description:** Light beige soft brittle material			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Linoleum/Binder, Fine particles, Fine grains	Cellulose	20%	**None Detected ND**
Layer 2 of 2	**Description:** Backing beige mastic with tan fibrous mesh			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Mastic/Binder, Fine particles	Synthetic fibers	16%	**None Detected ND**

Lab ID: 24114331 **Client Sample #: 24010783-0024**
Location: Merryfield Hall

Layer 1 of 2	**Description:** Light beige soft brittle material			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Linoleum/Binder, Fine particles, Fine grains	Cellulose	18%	**None Detected ND**
Layer 2 of 2	**Description:** Backing beige mastic with tan fibrous mesh pieces			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Mastic/Binder, Fine particles	Synthetic fibers	13%	**None Detected ND**

Lab ID: 24114332 **Client Sample #: 24010783-0025**
Location: Merryfield Hall

Layer 1 of 2	**Description:** Dark gray rubbery material			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Rubber/Binder, Fine grains	None Detected	ND	**None Detected ND**

Sampled by: Client
Analyzed by: Urooj Yousuf **Date:** 10/25/2024
Reviewed by: Munaf Khan **Date:** 10/25/2024

Munaf Khan, President/Laboratory Director

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Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: PBS Environmental - Eugene
Address: 3500 Chad Drive Suite 100
Eugene, OR 97408

Attention: **Mr. Aaron Lefore**
Project Location: Merryfield Hall

Batch #: 2419148.00
Client Project #: 24010783 Task 0001
Date Received: 10/22/2024
Samples Received: 34
Samples Analyzed: 34
Method: EPA/600/R-93/116

Layer 2 of 2 **Description:** Backing off-white adhesive with paint and white powdery debris

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Adhesive/Binder, Fine grains, Paint	None Detected ND	**None Detected ND**

Lab ID: 24114333 **Client Sample #: 24010783-0026**

Location: Merryfield Hall

Layer 1 of 2 **Description:** Dark gray rubbery material

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Rubber/Binder, Fine grains	None Detected ND	**None Detected ND**

Layer 2 of 2 **Description:** Backing off-white adhesive with paint and white powdery debris

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Adhesive/Binder, Fine grains, Paint	Cellulose <1%	**None Detected ND**

Lab ID: 24114334 **Client Sample #: 24010783-0027**

Location: Merryfield Hall

Comments: Unable to separate mastics and black asphalt for analysis in layer-2

Layer 1 of 2 **Description:** White loose material

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Binder/Filler, Fine particles, Fine grains	None Detected ND	**None Detected ND**

Layer 2 of 2 **Description:** Off-white adhesive with black asphaltic mastic

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Adhesive/Binder, Mastic/Binder, Asphaltic Particles	Cellulose <1%	**None Detected ND**

Lab ID: 24114335 **Client Sample #: 24010783-0028**

Location: Merryfield Hall

Layer 1 of 1 **Description:** Gray sandy material with paint

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Paint, Binder/Filler, Fine grains	None Detected ND	**None Detected ND**

Sampled by: Client
Analyzed by: Urooj Yousuf **Date:** 10/25/2024
Reviewed by: Munaf Khan **Date:** 10/25/2024

Munaf Khan, President/Laboratory Director

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Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: PBS Environmental - Eugene
Address: 3500 Chad Drive Suite 100
Eugene, OR 97408

Attention: Mr. Aaron Lefore
Project Location: Merryfield Hall

Batch #: 2419148.00
Client Project #: 24010783 Task 0001
Date Received: 10/22/2024
Samples Received: 34
Samples Analyzed: 34
Method: EPA/600/R-93/116

Mineral grains

Lab ID: 24114336 **Client Sample #: 24010783-0029**
Location: Merryfield Hall
Layer 1 of 1 **Description:** Off-white brittle material with paint and debris

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Paint, Putty Compound, Fine particles	Cellulose 3%	**Chrysotile 3%**
Fine grains, Debris		

Lab ID: 24114337 **Client Sample #: 24010783-0030**
Location: Merryfield Hall
Layer 1 of 1 **Description:** Off-white brittle material with paint and debris

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Paint, Putty Compound, Fine particles	Cellulose 2%	**Chrysotile 4%**
Fine grains, Debris		

Lab ID: 24114338 **Client Sample #: 24010783-0031**
Location: Merryfield Hall
Layer 1 of 1 **Description:** Off-white brittle material with paint and debris

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Paint, Putty Compound, Fine particles	Cellulose 3%	**Chrysotile 4%**
Fine grains, Debris		

Lab ID: 24114339 **Client Sample #: 24010783-0032**
Location: Merryfield Hall
Layer 1 of 1 **Description:** Off-white brittle material with paint and debris

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Paint, Putty Compound, Fine particles	Cellulose 1%	**Chrysotile 3%**

Sampled by: Client
Analyzed by: Urooj Yousuf **Date:** 10/25/2024
Reviewed by: Munaf Khan **Date:** 10/25/2024

Munaf Khan, President/Laboratory Director

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Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: PBS Environmental - Eugene
Address: 3500 Chad Drive Suite 100
Eugene, OR 97408

Attention: Mr. Aaron Lefore
Project Location: Merryfield Hall

Batch #: 2419148.00
Client Project #: 24010783 Task 0001
Date Received: 10/22/2024
Samples Received: 34
Samples Analyzed: 34
Method: EPA/600/R-93/116

Fine grains, Debris

Lab ID: 24114340 **Client Sample #: 24010783-0033**
Location: Merryfield Hall

Layer 1 of 1 **Description:** White brittle material with paint

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Paint, Binder/Filler, Fine particles	Cellulose 1%	**None Detected ND**
Fine grains	Glass fibers <1%	

Lab ID: 24114341 **Client Sample #: 24010783-0034**
Location: Merryfield Hall

Layer 1 of 1 **Description:** White brittle material with paint

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Paint, Binder/Filler, Fine particles	Cellulose <1%	**None Detected ND**
Fine grains		

Sampled by: Client
Analyzed by: Urooj Yousuf **Date:** 10/25/2024
Reviewed by: Munaf Khan **Date:** 10/25/2024

Munaf Khan, President/Laboratory Director

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ASBESTOS LABORATORY SERVICES

NVL

Company	PBS Environmental - Eugene	**NVL Batch Number**	**2419148.00**
Address	3500 Chad Drive Suite 100 Eugene, OR 97408	**TAT** 3 Days	**AH** No
		Rush TAT	
Project Manager	Mr. Aaron Lefore	**Due Date** 10/25/2024	**Time** 10:00 AM
Phone	(541) 686-8684	**Email**	aaron.lefore@pbsusa.com
		Fax	(866) 727-0140

Project Name/Number: 24010783 Task 0001 **Project Location:** Merryfield Hall

Subcategory PLM Bulk

Item Code ASB-02 EPA 600/R-93-116 Asbestos by PLM <bulk>

Total Number of Samples 34 Rush Samples

	Lab ID	Sample ID	Description	A/R
1	24114308	24010783-0001		A
2	24114309	24010783-0002		A
3	24114310	24010783-0003		A
4	24114311	24010783-0004		A
5	24114312	24010783-0005		A
6	24114313	24010783-0006		A
7	24114314	24010783-0007		A
8	24114315	24010783-0008		A
9	24114316	24010783-0009		A
10	24114317	24010783-0010		A
11	24114318	24010783-0011		A
12	24114319	24010783-0012		A
13	24114320	24010783-0013		A
14	24114321	24010783-0014		A
15	24114322	24010783-0015		A
16	24114323	24010783-0016		A
17	24114324	24010783-0017		A
18	24114325	24010783-0018		A

	Print Name	Signature	Company	Date	Time
Sampled by	Client				
Relinquished by	Federal Express				

Office Use Only	Print Name	Signature	Company	Date	Time
Received by	Fatima Khan		NVL	10/22/24	1000
Analyzed by	Urooj Yousuf		NVL	10/25/24	
Results Called by					
☐ **Faxed** ☐ **Emailed**					

Special Instructions:

Date: 10/22/2024
Time: 10:13 AM
Entered By: Fatima Khan

ASBESTOS LABORATORY SERVICES

NVL

Company PBS Environmental - Eugene
Address 3500 Chad Drive Suite 100
Eugene, OR 97408
Project Manager Mr. Aaron Lefore
Phone (541) 686-8684

NVL Batch Number **2419148.00**
TAT 3 Days **AH** No
Rush TAT
Due Date 10/25/2024 **Time** 10:00 AM
Email aaron.lefore@pbsusa.com
Fax (866) 727-0140

Project Name/Number: 24010783 Task 0001 **Project Location:** Merryfield Hall

Subcategory PLM Bulk
Item Code ASB-02 EPA 600/R-93-116 Asbestos by PLM <bulk>

Total Number of Samples 34 Rush Samples

	Lab ID	Sample ID	Description	A/R
19	24114326	24010783-0019		A
20	24114327	24010783-0020		A
21	24114328	24010783-0021		A
22	24114329	24010783-0022		A
23	24114330	24010783-0023		A
24	24114331	24010783-0024		A
25	24114332	24010783-0025		A
26	24114333	24010783-0026		A
27	24114334	24010783-0027		A
28	24114335	24010783-0028		A
29	24114336	24010783-0029		A
30	24114337	24010783-0030		A
31	24114338	24010783-0031		A
32	24114339	24010783-0032		A
33	24114340	24010783-0033		A
34	24114341	24010783-0034		A

	Print Name	Signature	Company	Date	Time
Sampled by	Client				
Relinquished by	Federal Express				

Office Use Only	Print Name	Signature	Company	Date	Time
Received by	Fatima Khan		NVL	10/22/24	1000
Analyzed by	Urooj Yousuf		NVL	10/25/24	
Results Called by					
☐ **Faxed** ☐ **Emailed**					

Special Instructions:

Date: 10/22/2024
Time: 10:13 AM
Entered By: Fatima Khan

PBS
AN APEX COMPANY

2419148

TRANSMITTAL AND CHAIN OF CUSTODY FOR ASBESTOS BULK SAMPLES

Project No.: 24010783 ~~Phase 0001~~ Task 0001 Merryfield Hall

Individuals signing this form warrant that the information provided is correct and complete. The Sender should keep a copy and send the original. The Receiver should complete the form, keep a copy and return the original to the Sender. Receiver shall report damage of package immediately to Sender.

SENDER

Date Sent: October 21, 2024

PBS Engineering and Environmental LLC
3500 Chad Drive, Suite 100
Eugene, OR 97408
541.686.8684, Fax: 866.727.0140

Aeron LeFore
Name

[signature] 10/21/24 15:00
Authorized Signature **Date** **Time**

RECEIVER

Date Received: 10/22/24

Company: NVL Labs. Inc.
Address: 4708 Aurora Ave. North
Seattle, WA 98103
(206)547-0100

Sebastian Mullins
Name

[signature] 10/22/24 Joan Fales
Authorized Signature **Date** **Time**

Sender's ID No.	Brief Description	Receiver's ID No.
24010783-0001		
24010783-0002		
24010783-0003		
24010783-0004		
24010783-0005		
24010783-0006		
24010783-0007		
24010783-0008		
24010783-0009		
24010783-0010		
24010783-0011		
24010783-0012		
24010783-0013		
24010783-0014		

PBS
AN APEX COMPANY

2419148

TRANSMITTAL AND CHAIN OF CUSTODY FOR ASBESTOS BULK SAMPLES

24010783-0015		
24010783-0016		
24010783-0017		
24010783-0018		
24010783-0019		
24010783-0020		
24010783-0021		
24010783-0022		
24010783-0023		
24010783-0024		
24010783-0025		
24010783-0026		
24010783-0027		
24010783-0028		
24010783-0029		
24010783-0030		
24010783-0031		
24010783-0032		
24010783-0033		
24010783-0034		

PBS
AN APEX COMPANY

2419148

TRANSMITTAL AND CHAIN OF CUSTODY FOR ASBESTOS BULK SAMPLES

Please analyze the enclosed 34 sample(s) for asbestos content using PLM with dispersion staining. PBS requests prior notification if samples will be disposed.
Request verbal results by: _____ AM/PM _____Date.

Please fax and mail the results to the above address.

TURNAROUND DESIRED: **72 Hour**

SPECIAL INSTRUCTIONS:

Please include results in electronic (csv) format.

please email results to aaron.lelorephsusa.com Thanks!

October 22, 2024

Aaron Lefore
PBS Environmental - Eugene
3500 Chad Drive Suite 100
Eugene, OR 97408

NVL Batch # 2419150.00

RE: Total Metal Analysis
Method: EPA 7000B Lead by FAA <paint>
Item Code: FAA-02

Client Project: 24010783 Task 0001
Location: Merry Field Hall

Dear Mr. Lefore,

NVL Labs received 6 sample(s) for the said project on 10/22/2024. Preparation of these samples was conducted following protocol outlined in EPA 3051/7000B , unless stated otherwise. Analysis of these samples was performed using analytical instruments in accordance with EPA 7000B Lead by FAA <paint>. The results are usually expressed in mg/Kg and percentage (%). Test results are not blank corrected.

For recent regulation updates pertaining to current regulatory levels or permissible exposure levels, please call your local regulatory agencies for more detail.

At NVL Labs all analyses are performed under strict guidelines of the Quality Assurance Program. If samples were collected by the customer, then the reported test results apply only to the samples as received by NVL Labs. This report is considered highly confidential and will not be released without your approval. Samples are archived after two weeks from the analysis date. Please feel free to contact us at 206-547-0100, in case you have any questions or concerns.

Sincerely,

Shalini Patel, Manager Metals/Org Laboratory

Enc.: Sample results

Analysis Report

Total Lead (Pb)

Client: PBS Environmental - Eugene
Address: 3500 Chad Drive Suite 100
Eugene, OR 97408

Attention: **Mr. Aaron Lefore**
Project Location: Merry Field Hall

Batch #: 2419150.00
Matrix: Paint
Method: EPA 3051/7000B
Client Project #: 24010783 Task 0001
Date Received: 10/22/2024
Samples Received: 6
Samples Analyzed: 6

Lab ID	Client Sample #	Sample Weight (g)	RL in mg/Kg	Results in mg/Kg	Results in percent
24114346	LB24010783-1001	0.1923	52	1300	0.13
24114347	LB24010783-1002	0.2038	49	38000	3.8
24114348	LB24010783-1003	0.2079	48	1300	0.13
24114349	LB24010783-1004	0.1994	50	30000	3.0
24114350	LB24010783-1005	0.2036	49	180000	18
24114351	LB24010783-1006	0.1853	54	55000	5.5

Sampled by: Client
Analyzed by: Yasuyuki Hida
Reviewed by: Shalini Patel

Date Analyzed: 10/22/2024
Date Issued: 10/22/2024

Shalini Patel, Manager Metals/Org Laboratory

mg/ Kg =Milligrams per kilogram
Percent = Milligrams per kilogram / 10000
Note : Method QC results are acceptable unless stated otherwise.
Unless otherwise indicated, the condition of all samples was acceptable at time of receipt.

RL = Reporting Limit
'<' = Below the reporting Limit

Bench Run No: 2024-1022-05
FAA-02

LEAD LABORATORY SERVICES

Company PBS Environmental - Eugene
Address 3500 Chad Drive Suite 100
Eugene, OR 97408
Project Manager Mr. Aaron Lefore
Phone (541) 686-8684

NVL Batch Number **2419150.00**
TAT 3 Days **AH** No
Rush TAT
Due Date 10/25/2024 **Time** 10:00 AM
Email aaron.lefore@pbsusa.com
Fax (866) 727-0140

Project Name/Number: 24010783 Task 0001 **Project Location:** Merry Field Hall

Subcategory Flame AA (FAA)
Item Code FAA-02 EPA 7000B Lead by FAA <paint>

Total Number of Samples 6 Rush Samples

	Lab ID	Sample ID	Description	A/R
1	24114346	LB24010783-1001		A
2	24114347	LB24010783-1002		A
3	24114348	LB24010783-1003		A
4	24114349	LB24010783-1004		A
5	24114350	LB24010783-1005		A
6	24114351	LB24010783-1006		A

	Print Name	Signature	Company	Date	Time
Sampled by	Client				
Relinquished by	Federal Express				

Office Use Only	Print Name	Signature	Company	Date	Time
Received by	Fatima Khan		NVL	10/22/24	1000
Analyzed by	Yasuyuki Hida		NVL	10/22/24	
Results Called by					
☐ **Faxed** ☐ **Emailed**					

Special Instructions:

Date: 10/22/2024
Time: 10:24 AM
Entered By: Fatima Khan

PBS
AN APEX COMPANY

2419150

TRANSMITTAL AND CHAIN OF CUSTODY FOR LEAD BULK SAMPLES

Project No.: 24010783 ~~Phase 0001~~ Task 0001 Merryfield Hall

Individuals signing this form warrant that the information provided is correct and complete. The Sender should keep a copy and send the original. The Receiver should complete the form, keep a copy and return the original to the Sender. Receiver shall report damage of package immediately to Sender.

SENDER

Date Sent: October 21, 2024

PBS Engineering and Environmental LLC
3500 Chad Drive, Suite 100
Eugene, OR 97408
541.686.8684, Fax: 866.727.0140

Aaron LeFort
Name

Authorized Signature

10/21/24
Date

RECEIVER

Date Received: _____

Company: NVL Labs, Inc.
Address: 4708 Aurora Ave. North
Seattle, WA 98103
(206)547-0100

Johnathan NVL Labs
Name

Authorized Signature

fedex 10/22/24 10am
Date

Sender's ID No.	Brief Description	Receiver's ID No.
LB24010783-1001		
LB24010783-1002		
LB24010783-1003		
LB24010783-1004		
LB24010783-1005		
LB24010783-1006		

ANALYSIS REQUESTED:

LEAD:
- ☑ **Paint**
- ☐ **Wipe**
- ☐ **Soil/Misc.**
- ☐ **Air**
- ☐ **TCLP**

Please analyze the enclosed 6 sample(s) for LEAD content using Atomic Absorption Method. PBS requests prior notification if samples will be disposed.

Please fax and mail the results to the above address.

TURNAROUND DESIRED:

72 Hour

SPECIAL INSTRUCTIONS:

Please email results to aaron.lefort@pbsusa.com

THIS IS TO CERTIFY THAT

AARON LEFORE

HAS SUCCESSFULLY COMPLETED THE TRAINING COURSE

for

ONLINE AHERA ASBESTOS INSPECTOR REFRESHER

In accordance with TSCA Title II, Part 763, Subpart E, Appendix C of 40 CFR

Course Date: 01/23/2024

Course Location: Online

Certificate: IRO-24-7318B

CCB #SRA0615 4-Hr Training

4-Hour Online AHERA Inspector Refresher Training; AHERA is the Asbestos Hazard Emergency Response Act enacting Title II of Toxic Substance Control Act (TSCA)

Expiration Date: 01/23/2025

For verification of the authenticity of this certificate contact:
PBS Engineering and Environmental Inc.
4412 S Corbett Avenue
Portland, OR 97239
503.248.1939

Andy Fridley, Instructor

Asbestos and Lead Paint Survey Report

Merryfield Hall
Oregon State University
1600 SW Monroe Street
Corvallis, Oregon 97331

Prepared for:
Oregon State University
Capital Planning and Development
3015 SW Western Boulevard
Corvallis, Oregon 97331

August 2017
PBS Project No. 52310.000

PBS
2645 WILLAMETTE ST, SUITE A
EUGENE, OR 97405
541.686.8684 MAIN
866.727.0140 FAX
PBSUSA.COM

GENERAL INFORMATION

BUILDING DATA

Merryfield Hall
1600 SW Monroe Street
Corvallis, Oregon

CLIENT DATA

Oregon State University
Capital Planning and Development
3015 SW Western Boulevard
Corvallis, Oregon 97331

SURVEY SCOPE

PBS Engineering and Environmental, Inc. (PBS) has performed a limited pre-renovation asbestos and lead paint survey of Merryfield Hall on the Oregon State University campus, located at 1600 SW Monroe Street in Corvallis, Oregon. Survey activities were limited to the areas of the building that are planned for renovation in the fall of 2017. The following areas were not assessed as part of this survey, as they were indicated by the owner to be outside of the proposed renovation scope of work:

- Lab spaces at the east end of the east wing; including rooms 109, 109A, 110, 110A, 111, and 111A
- Office spaces at the south end of the south wing; including rooms 100, 100A, 100B, 100C, 100D, 100E, 101, 102, and 102A
- All roof areas, with the exception of the southwest flat roof section

The survey was conducted in general accordance with OSHA regulations in 29 CFR 1910.1001 and DEQ regulations in 340-248-0270. Based on the information gathered during the site inspection and laboratory analysis, this report contains the following information:

- The type, location, and approximate quantity of suspect asbestos-containing materials
- A summary of lead paint sampling
- Sample inventories listing the sample number, location, materials description, and laboratory results for each asbestos bulk and lead paint sample
- Laboratory analytical data of bulk materials sampled
- Inspector(s) certifications

Asbestos

PBS endeavored to locate all suspect asbestos-containing materials within the select areas planned for renovation; however, suspect asbestos-containing materials may be present and concealed within wall, ceiling, or floor spaces. If suspect materials are uncovered during demolition or renovation activities that are not identified in this report, testing should be performed prior to impact. Inspection and sampling of roofing materials was limited to one flat roof section adjacent to the second-floor office area.

Lead Paint

PBS collected bulk samples from representative painted surfaces from the building interior and exterior. The samples were analyzed for lead using flame atomic absorption (FAA). No attempt was made to determine the paint history of the components that were sampled. The lead paint testing conducted during this survey was for site lead hazard characterization purposes and was not a surface-by-surface inspection of every painted building component.

Previous Reports

The University provided PBS with two previous asbestos survey documents, one prepared by Hall-Kimbrell Environmental Services in September of 1990, and another, prepared by Forensic Analytical Consulting Services, Inc. of Portland, Oregon in October of 2008. PBS reviewed this document, including materials previously sampled, locations, and laboratory results, and incorporated that data into the findings presented in this report. The previous survey reports are appended to this document.

Certification

PBS has conducted a physical inspection of the select renovation areas at Merryfield Hall, compiled this report consistent with the survey scope, and certifies that the information is correct and accurate within the standards of professional quality and contractual obligations.

Jack Burgess
Project Manager
Accreditation: IMR-17-6994A

8/17/2017
Signature Date

DJ Burrows, PE
Staff Environmental Engineer
Accreditation: IR-17-9405A

8/17/2017
Signature Date

INSPECTION SUMMARY

DATES	SURVEYED BY	ACTIVITY
June 15-20 & July 13, 2017	Jack Burgess and DJ Burrows	Materials Inventory and Bulk Sample Collection

PBS has investigated select areas of Merryfield Hall on the Oregon State University campus to locate suspect asbestos-containing building materials (ACBM). Additional suspect materials may be present in concealed areas (e.g., behind walls and above ceilings). The findings are listed below.

ASBESTOS MATERIALS

The following materials tested positive, or, based on the experience of PBS field personnel, were not tested and should be considered asbestos-containing. Materials that had mixed results are considered positive. Materials not sampled may contain asbestos and should be tested to verify asbestos content prior to impact through demolition, renovation, etc.

(+) Tested Positive, (-) Tested Negative, (M) Mixed Results, (P) Presumed Positive, (T) Previously Tested Positive, SF – Square Feet, LF – Linear Feet, EA - Each

Result	Material (type)	Location	Approx. Quantity
(-/+)	Vinyl Floor Tile, 12"x12" Brown with Dark Brown and White Streaks / Mastic, Black	Exposed within rooms 103B, 104A, 104C, 105, Hallway H101, Vestibule V201, Hallway H201, rooms 203, and 203A	3,580 SF
		Concealed beneath non-asbestos flooring materials within rooms 103, 103A, 104, 104D, 104E, 104F, 104G, and 203B; concealed beneath casework throughout all lab spaces in south wing	4,900 SF
(+/-)	Vinyl Floor Tile, 9"x9" Dark Brown with Red and White Spatter	Concealed beneath non-asbestos flooring materials in rooms 107A, 112, and 113	395 SF
(+)	Sheet Vinyl Floor Covering, Red Pebble Pattern	Exposed within rooms 204, 204D, 204E, and 204F	440 SF
		Concealed beneath non-asbestos flooring materials in room 204A	220 SF
(-/+)	Gypsum Board / Joint Compound	Rooms 204, 204D, 204E, 204F, and central stairway S101/201	1,350 SF

ASBESTOS MATERIALS

The following materials tested positive, or, based on the experience of PBS field personnel, were not tested and should be considered asbestos-containing. Materials that had mixed results are considered positive. Materials not sampled may contain asbestos and should be tested to verify asbestos content prior to impact through demolition, renovation, etc.

(+) Tested Positive, (-) Tested Negative, (M) Mixed Results, (P) Presumed Positive, (T) Previously Tested Positive, SF – Square Feet, LF – Linear Feet, EA - Each

Result	Material (type)	Location	Approx. Quantity
(+)	Air-Cell Pipe Insulation	Runs along perimeter walls of crawlspace beneath central building and south wing. Also observed on vertical pipe run within room 106B and above the ceiling within 107B.	415 LF (Observed)
(+)	Air-Cell Pipe Insulation Debris	In various areas within crawlspace beneath central building and south wing in immediate vicinity of insulated pipe straight runs	50 SF
(P)	Cement Asbestos Board Countertops & Backsplash	Rooms 103, 104, 104A, and 104F	550 SF
(P)	Fume Hoods with Asbestos Lining	Rooms 103 and 104F	2 EA
(P)	Cement Asbestos Board Rolling Carts	Room 104	24 SF
(P)	Cement Asbestos Board Sinks	Rooms 103 and 104F	5 EA
(P)	Cement Asbestos Board Shelving	Room 103	65 SF
(P)	Cement Asbestos Board Drain Troughs (Approximately 4" deep by 4" wide)	Between lab countertops in Room 103	32 LF

MATERIALS WHICH TESTED NEGATIVE FOR ASBESTOS

The following materials tested negative based on ASHARA sampling minimums and testing by NVLAP participating laboratories. Although no asbestos was detected, it is possible that further sampling could indicate asbestos content.

Material (type)	**Location**
Sheet Vinyl Floor Covering, Small Red Brick Pattern / Backing / Mastic	Storage room 105A
Sheet Vinyl Floor Covering, Large Red and Tan Brick Pattern / Backing / Mastic	Storage space beneath south stairway, off of room 103B
Sheet Vinyl Floor Covering, Green Marbled Pattern / Jute Backing / Mastic	Offices 106, 106A, and 106B
Sheet Vinyl Floor Covering, Black / Backing / Mastic	Around perimeter of floors in storage room 105A and office 202.
Sheet Vinyl Floor Covering, Brown / Jute Backing / Mastic	First floor stairway landing and stair tread material in central stairway
Sheet Vinyl Floor Covering, Beige 4" Square Crosshatched Pattern / Backing / Mastic	Office 201A
Sheet Vinyl Floor Covering, Blue-Gray Marbled Pattern / Jute Backing / Mastic	Lab spaces 103, 104, 104D, 104E, 104F, 104G, and room 107B *(This material conceals asbestos-containing flooring materials in several locations)
Sheet Vinyl Floor Covering, Off-White Speckled Pattern / Backing / Mastic	Restrooms 112 and 113 *(This material conceals asbestos-containing flooring materials in both locations)
Vinyl Floor Tile, 12"x12" White with Gray Spatter / Mastic	Lab space 103B and office 104B
Vinyl Floor Tile, 9"x9" Green, Red, and Tan Streaking / Mastic	Office 202
Carpet Mastic	Offices 201, 203B, and 204A *(Glued-down carpets conceal asbestos-containing flooring materials in rooms 203B and 204A)
Vinyl Covebase / Mastic	Throughout the building

MATERIALS WHICH TESTED NEGATIVE FOR ASBESTOS

The following materials tested negative based on ASHARA sampling minimums and testing by NVLAP participating laboratories. Although no asbestos was detected, it is possible that further sampling could indicate asbestos content.

Material (type)	**Location**
Gypsum Board / Joint Compound	Wall and/or ceiling finishes within lab spaces and ground floor of central building, second floor with exception of those locations listed under positive materials above.
Plaster, White/Gray	Wall and/or ceiling finishes throughout the building
Woven Burlap Wainscoting / Mastic	Applied to lower walls throughout both floors of the central building
Lay-in Ceiling Tile, 2'x4' Random Fissures & Stipple	Throughout the lab spaces and offices on the ground floor, and within offices 201, 201A, and 202 on the second floor
Glued-on Ceiling Tile, 12"x12" with Random Holes / Mastic	Lab space 103
Vinyl Stair Tread, Green / Mastic	Central stairway
Vapor Barrier, Black	Between upper and lower flooring layers on second floor of central building
Felt, Gray	Between flooring underlayment and subfloor in central building and south wing
Tar Paper, Black	Between wood underlayment layers and subfloor on ground floor of central building
Window Glazing Compound, White/Beige	Applied between glass windows and wood framing
Brick, Red / Mortar, Gray	Exterior structural walls over entire building
Sealant, Gray	Around exterior door framing
Sealant, Tan	Around exterior door framing
Mastic, Black/Brown	Applied to chalkboard in classroom 105
Built-up Roofing	Applied to southwest flat roof section between central building and south wing
Roofing Sealant, Black (1)	Around roofing flashings on southwest flat roof section
Roofing Sealant, Black (2)	Around roofing penetrations on southwest flat roof section

MATERIALS WHICH TESTED NEGATIVE FOR ASBESTOS	
The following materials tested negative based on ASHARA sampling minimums and testing by NVLAP participating laboratories. Although no asbestos was detected, it is possible that further sampling could indicate asbestos content.	
Material (type)	**Location**
Roofing Felt, Black	On ventilation equipment above room 104
Electrical Wiring Insulation	In crawlspace and in attic spaces

INSPECTION SUMMARY

BACKGROUND

Between June 15th and 20th, 2017 PBS performed a limited pre-renovation asbestos and lead paint survey of Merryfield Hall on the Oregon State University campus in Corvallis, Oregon. The survey was requested by Oregon State University in anticipation of a renovation project.

The purpose of the survey was to locate, identify, and quantify accessible friable and non-friable asbestos-containing building materials, as well as any lead-based paints, that may be impacted during renovation activities.

The survey is also intended to satisfy Occupational Safety and Health Administration (OSHA) hazard communication requirements as well as the requirement by the Department of Environmental Quality (DEQ) Oregon Administrative Rule (OAR) 340-248-0270 to perform an asbestos inspection prior to renovation or demolition activities.

Further follow-up sampling of gypsum board/joint compound wall systems and several types of electrical wiring insulation was performed on July 13th, 2017 in an effort to better delineate positive materials requiring abatement.

ASBESTOS SUMMARY

PBS Asbestos Hazard Emergency Response Act (AHERA) accredited inspectors inspected select areas of the building to determine the presence, location, and approximate quantity of asbestos containing materials (ACM). Sixty-three (63) bulk samples of building materials, suspected of containing asbestos, were collected and submitted under chain of custody to NVL Labs of Seattle, Washington, for polarized light microscopy (PLM) analysis. The following materials were found to contain asbestos:

- Asbestos-containing mastic adhering Brown 12" floor tile was observed both exposed, and concealed beneath non-asbestos flooring materials, cabinetry, and casework, throughout the central building and south wing. Refer to the "Asbestos Materials" section above for specific location information.
- Asbestos-containing Brown 9" floor tile was observed beneath non-asbestos flooring materials in the northeast corner of the ground floor of the central building; within room 107A and restrooms 112 and 113.
- Asbestos-containing sheet vinyl was observed within rooms 204, 204A, 204D, 204D, and 204F. Glued-down carpet conceals the sheet vinyl within room 204A.

- Asbestos-containing joint compound applied to gypsum board wall systems was identified within the restroom and immediately surrounding areas on the second floor, as well as within the central stairway.
- Asbestos-containing air-cell pipe insulation was observed applied to steam lines running the perimeter of the crawlspace, as well as vertical pipe runs within rooms 106B and above the ceiling in 107B. Damaged sections of pipe insulation and some areas impacted by pipe insulation debris were observed in the crawlspace. Additional pipe insulation is likely to be present concealed within plumbing walls, mechanical chases, etc. that was unable to be verified without significant exploratory demolition.
- Several different cement-asbestos materials were observed throughout the lab spaces in the south wing, including: countertops, backsplashes, rolling carts with asbestos shelving, lab shelving, lab sinks, drain troughs between lab countertops, and fume hood linings.
- Suspect electrical wiring insulation was observed in the crawlspace and is likely also within wall and ceiling spaces. This material was not sampled during survey activities as the wiring is currently in use and could not be safely stripped during this survey. Suspect electrical wiring insulation should be sampled prior to removal or impact by renovation or demolition activities.

At the time of this survey, all asbestos-containing building materials, except for the damaged pipe insulation, were observed to be in good condition.

The areas of pipe insulation damage and observed debris is friable and should be repaired and removed by a licensed asbestos abatement contractor.

Please refer to the asbestos bulk sample inventory for more sample details.

Asbestos Regulations

Oregon DEQ, Environmental Protection Agency (EPA) and OSHA regulations require proper removal and handling of ACM by licensed and trained asbestos abatement contractors prior to building renovations or demolition.

The EPA, DEQ, and OSHA all define ACM as any material containing more than one percent asbestos. Although materials equal to or less than one percent are not considered by regulatory agencies to be an ACM, they still have some asbestos content, and Oregon OSHA has specific requirements for situations in which workers may encounter, disturb, or remove materials containing any level of asbestos. For the sake of hazard communication, these materials are included in the asbestos-containing materials section of this report.

In 1995, Oregon OSHA adopted 29 Code of Federal Regulations (CFR) Part 1926.1101 governing asbestos under OAR 437-003-1926.1101. The regulation has made significant changes in work procedures and how asbestos materials are managed. OSHA believes that the single biggest risk of asbestos exposure is to workers who unknowingly or improperly disturb ACM. Hazard communication, training, personal protection, work practices, exposure monitoring, and recordkeeping are all major components of the regulation.

DEQ's OAR 340, Division 248 also covers asbestos abatement requirements, removal notifications, licensing, and certifications for contractors.

For more information regarding the removal of asbestos-containing materials, please refer to the following:

1. Oregon Occupational Safety and Health Administration, OAR 437-003-1926.1101
2. Department of Environmental Quality, OAR-340, Division 248

LEAD-BASED PAINT SUMMARY

Paint was sampled for lead content for the sake of hazard communication. Thirteen (13) paint chip samples were collected from representative building components on both the building interior and exterior and submitted under chain of custody to NVL Labs of Seattle, Washington, for analysis of lead content via flame atomic absorption (FLAA). Lead was detected in all samples and the concentration of lead in the samples ranged from 100 parts per million (ppm) to 200,000 ppm. Seven of the thirteen paint chip samples would be considered "lead-based" under HUD/EPA regulations.

See the Lead Sample Inventory section for representative building components and corresponding results.

Paint testing for this survey was limited in scope. The report information and testing results are not to be construed as an exhaustive investigation of lead-containing paint on all building surfaces. All paint on painted surfaces not identified in this report should be presumed to contain lead.

Lead-Containing Paint Regulations

The Consumer Product Safety Commission limit for lead in consumer paint products is 0.009 percent or 90 parts per million (ppm) or greater. The Department of Housing and Urban Development (HUD) and the EPA define lead-based paint as that which contains lead at 0.5 percent or 5,000 ppm or greater. Under OSHA, any lead concentration in paint that may become airborne during construction operations triggers requirements in the OSHA Lead in Construction Standard 29 CFR 1926.62 to protect employees impacting the paint.

In 1993, Oregon OSHA adopted the federal OSHA Lead Standard for the Construction Industry Title 29 CFR 1926.62 under Oregon Administrative Rule 437 Division 3 1926.62. This standard outlines worker exposure limits, personal protection requirements, and employer responsibility for exposure assessment, training, housekeeping, and recordkeeping. OSHA's lead standard applies to all work where employees may be exposed to lead in construction, alteration, or repair activities. This includes demolition or renovation of structures where lead-containing materials are present.

Disposal

According to Oregon DEQ's Hazardous Waste/Toxics Reduction Policy Clarification, disposal of building demolition waste coated with lead-based paint generally will not require a hazardous wasted determination (i.e., toxicity characteristic leaching procedures [TCLP] testing) if demolition debris is disposed of at a DEQ-permitted solid waste landfill that meets the current design standards for municipal solid waste disposal facilities of 40 CFR Part 258.

Refer to the DEQ hazardous waste reduction policy and follow all requirements under the Oregon DEQ, Management of Building Demolition Waste, 97-002A for proper disposal of lead-based painted demolition waste.

This report is not suitable as a bid document or an asbestos abatement design. The purpose of this report is risk hazard communication only.

Code	Material		Location	Results	Lab
52310.000-0001	Sheet Floor Covering		Room 105A, perimeter around red brick pattern sheet vinyl		NVL Labs, Inc.
		Layer:	**Description:**	**Analysis:**	
		Layer 1	Black sheet vinyl	No Asbestos Detected	
		Layer 2	Tan backing with mastic	No Asbestos Detected	
52310.000-0002	Tar Paper		Room 107B		NVL Labs, Inc.
		Layer:	**Description:**	**Analysis:**	
		Layer 1	Black tar paper	No Asbestos Detected	
	Comments:	between wood underlayment and subfloor			
52310.000-0003	Floor Tile		Room 107A		NVL Labs, Inc.
		Layer:	**Description:**	**Analysis:**	
		Layer 1	White woven carpet backing with gray/yellow mastic	No Asbestos Detected	
		Layer 2	Brown vinyl tile with white and red spatter	3% Chrysotile	
		Layer 3	Black asphaltic mastic	No Asbestos Detected	
		Layer 4	Black tar paper with mastic	No Asbestos Detected	
	Comments:	concealed beneath carpet			
52310.000-0004	Sheet Floor Covering		Room 112		NVL Labs, Inc.
		Layer:	**Description:**	**Analysis:**	
		Layer 1	Off-white, speckled sheet vinyl	No Asbestos Detected	
		Layer 2	White mastic	No Asbestos Detected	
		Layer 3	Tan underlayment	No Asbestos Detected	
		Layer 4	Brown vinyl tile with white and red spatter	2% Chrysotile	
		Layer 5	Black tar paper with mastic	No Asbestos Detected	
52310.000-0005	Covebase/Mastic		Room 105		NVL Labs, Inc.
		Layer:	**Description:**	**Analysis:**	
		Layer 1	Brown covebase	No Asbestos Detected	
		Layer 2	Brown and cream mastics	No Asbestos Detected	
52310.000-0006	Covebase/Mastic		Hallway H101		NVL Labs, Inc.
		Layer:	**Description:**	**Analysis:**	
		Layer 1	Black covebase	No Asbestos Detected	
		Layer 2	Brown and cream mastics	No Asbestos Detected	

Code	Material		Location	Results	Lab
52310.000-0007	Sheet Floor Covering		Room 106		NVL Labs, Inc.
		Layer:	**Description:**	**Analysis:**	
		Layer 1	Green marbled sheet vinyl	No Asbestos Detected	
		Layer 2	Tan jute and grey felt backing / Tan mastic	No Asbestos Detected	
52310.000-0008	Floor Tile		Hallway H101		NVL Labs, Inc.
		Layer:	**Description:**	**Analysis:**	
		Layer 1	Brown 12" vinyl tile with dark brown and white streaks	No Asbestos Detected	
		Layer 2	Black mastic	3% Chrysotile	
		Layer 3	Black sheet vinyl	No Asbestos Detected	
		Layer 4	Gray felt	No Asbestos Detected	
		Layer 5	Black asphaltic tar paper	No Asbestos Detected	
		Layer 6	Brown wood debris	No Asbestos Detected	
52310.000-0009	Sheet Floor Covering		Central stairway, ground floor landing		NVL Labs, Inc.
		Layer:	**Description:**	**Analysis:**	
		Layer 1	Brown sheet vinyl	No Asbestos Detected	
		Layer 2	Tan jute with brown mastic	No Asbestos Detected	
		Layer 3	Brown wood debris	No Asbestos Detected	
52310.000-0010	Stair Tread		Central stairway		NVL Labs, Inc.
		Layer:	**Description:**	**Analysis:**	
		Layer 1	Green stair tread	No Asbestos Detected	
		Layer 2	Tan jute backing and mastic	No Asbestos Detected	
52310.000-0011	Vapor Barrier		Room V0201		NVL Labs, Inc.
		Layer:	**Description:**	**Analysis:**	
		Layer 1	Black vapor barrier	No Asbestos Detected	
	Comments:	on upper surface of lower floor, upper floor is furred up approximately 3" above lower flooring surface			
52310.000-0012	Covebase/Mastic		Room 0204		NVL Labs, Inc.
		Layer:	**Description:**	**Analysis:**	
		Layer 1	Black, 4" covebase	No Asbestos Detected	
		Layer 2	Cream and black mastics	No Asbestos Detected	

Code	Material	Location	Results	Lab
52310.000-0013	Sheet Floor Covering	Room 0204		NVL Labs, Inc.
	Layer:	**Description:**	**Analysis:**	
	Layer 1	Red sheet vinyl with pebble pattern	No Asbestos Detected	
	Layer 2	Gray backing with yellow mastic	52% Chrysotile	
	Layer 3	Wood debris with brown mastic	No Asbestos Detected	
	Layer 4	Black vapor barrier	No Asbestos Detected	
52310.000-0014	Mastic	Room 0204F		NVL Labs, Inc.
	Layer:	**Description:**	**Analysis:**	
	Layer 1	Brown mastic	No Asbestos Detected	
	Layer 2	Brown wood debris	No Asbestos Detected	
	Comments:	between underlayment layers in upper flooring		
52310.000-0015	Sheet Floor Covering	Room 0201A		NVL Labs, Inc.
	Layer:	**Description:**	**Analysis:**	
	Layer 1	Beige sheet vinyl with 4" square crosshatched pattern	No Asbestos Detected	
	Layer 2	Gray backing with mastic	No Asbestos Detected	
	Layer 3	Brown wood debris	No Asbestos Detected	
	Layer 4	Brown sheet vinyl	No Asbestos Detected	
	Layer 5	Tan jute backing with mastic	No Asbestos Detected	
	Layer 6	Gray backing with mastic	No Asbestos Detected	
	Comments:	multiple layers of vinyl flooring		
52310.000-0016	Vapor Barrier	Room 0201A		NVL Labs, Inc.
	Layer:	**Description:**	**Analysis:**	
	Layer 1	Black vapor barrier	No Asbestos Detected	
	Comments:	on upper surface of lower floor, upper floor is furred up approximately 3" above lower flooring surface		
52310.000-0017	Vinyl Floor Tile	Room 0103		NVL Labs, Inc.
	Layer:	**Description:**	**Analysis:**	
	Layer 1	Brown vinyl tile with dark brown and white streaks	No Asbestos Detected	
	Layer 2	Black mastic and tar paper	2% Chrysotile	
	Layer 3	Plywood	No Asbestos Detected	
	Layer 4	Gray sheet vinyl	No Asbestos Detected	
	Layer 5	Tan jute with mastic	No Asbestos Detected	
	Layer 6	Gray felt backing	No Asbestos Detected	
	Comments:	Multiple layers of flooring materials, concealed beneath non-asbestos sheet vinyl and underlayment		

Code	Material	Location	Results	Lab
52310.000-0018	Sheet Floor Covering	Storage space off of room 103B, beneath south stairway		NVL Labs, Inc.
	Layer:	**Description:**	**Analysis:**	
	Layer 1	Sheet vinyl with large red and tan brick pattern	No Asbestos Detected	
	Layer 2	Tan backing	No Asbestos Detected	
	Layer 3	Gray felt with mastic	No Asbestos Detected	
	Layer 4	Plywood	No Asbestos Detected	
	Comments:	storage space off of room 103B		
52310.000-0019	Sheet Floor Covering	Room 104G		NVL Labs, Inc.
	Layer:	**Description:**	**Analysis:**	
	Layer 1	Blue-gray sheet vinyl with marbled pattern	No Asbestos Detected	
	Layer 2	Tan jute backing and mastic	No Asbestos Detected	
	Layer 3	Plywood	No Asbestos Detected	
	Layer 4	Brown floor tile with dark brown and white streaks	No Asbestos Detected	
	Layer 5	Black mastic	No Asbestos Detected	
	Layer 6	Brown wood debris	No Asbestos Detected	
52310.000-0020	Covebase/Mastic	Room 103B		NVL Labs, Inc.
	Layer:	**Description:**	**Analysis:**	
	Layer 1	Black, 4" covebase	No Asbestos Detected	
	Layer 2	Brown mastic	No Asbestos Detected	
	Layer 3	Joint Compound	No Asbestos Detected	
52310.000-0021	Covebase Mastic	Room 104F		NVL Labs, Inc.
	Layer:	**Description:**	**Analysis:**	
	Layer 1	Yellow mastic	No Asbestos Detected	
	Layer 2	Cream mastic	No Asbestos Detected	
	Layer 3	Joint compound	No Asbestos Detected	
52310.000-0022	Gypsum Wallboard/Joint Compound	Room 107A, west wall		NVL Labs, Inc.
	Layer:	**Description:**	**Analysis:**	
	Layer 1	Joint compound	No Asbestos Detected	
	Layer 2	Gypsum wallboard	No Asbestos Detected	
52310.000-0023	Burlap Wainscot	Hallway H101, south wall at Room 104		NVL Labs, Inc.
	Layer:	**Description:**	**Analysis:**	
	Layer 1	Tan burlap with paint and mastic	No Asbestos Detected	

Code	Material		Location	Results	Lab
52310.000-0024	Plaster		Hallway H101, south wall at Room 104		NVL Labs, Inc.
		Layer:	**Description:**	**Analysis:**	
		Layer 1	White plaster skimcoat	No Asbestos Detected	
		Layer 2	Gray plaster basecoat	No Asbestos Detected	
	Comments:	concealed under burlap			
52310.000-0025	Plaster		H101, north wall at room 107B		NVL Labs, Inc.
		Layer:	**Description:**	**Analysis:**	
		Layer 1	White plaster skim coat	No Asbestos Detected	
		Layer 2	White plaster skimcoat	No Asbestos Detected	
		Layer 3	Gray plaster basecoat	No Asbestos Detected	
52310.000-0026	Air Cell Pipe Insulation		107B, above ceiling tile along east wall		NVL Labs, Inc.
		Layer:	**Description:**	**Analysis:**	
		Layer 1	Pipe insulation with paint and mastic	54% Chrysotile	
		Layer 2	Pipe insulation	50% Chrysotile	
52310.000-0027	Plaster		Room 202, north wall, lower wall		NVL Labs, Inc.
		Layer:	**Description:**	**Analysis:**	
		Layer 1	White plaster skimcoat	No Asbestos Detected	
		Layer 2	Gray plaster basecoat	No Asbestos Detected	
52310.000-0028	Gypsum Wallboard/Joint Compound		Room 203A, south wall		NVL Labs, Inc.
		Layer:	**Description:**	**Analysis:**	
		Layer 1	Joint compound	No Asbestos Detected	
		Layer 2	Gypsum wallboard	No Asbestos Detected	
52310.000-0029	Gypsum Wallboard/Joint Compound		Room 204F, northwest corner		NVL Labs, Inc.
		Layer:	**Description:**	**Analysis:**	
		Layer 1	Joint compound	2% Chrysotile	
		Layer 2	Joint compound	3% Chrysotile	
		Layer 3	Gypsum wallboard	No Asbestos Detected	

Code	Material		Location	Results	Lab
52310.000-0030	Gypsum Wallboard/Joint Compound		Room 204A, east wall		NVL Labs, Inc.
		Layer:	**Description:**	**Analysis:**	
		Layer 1	Joint compound	No Asbestos Detected	
		Layer 2	Joint compound	No Asbestos Detected	
		Layer 3	Gypsum wallboard	No Asbestos Detected	
52310.000-0031	Gypsum Wallboard/Joint Compound		Stairs S020, west wall		NVL Labs, Inc.
		Layer:	**Description:**	**Analysis:**	
		Layer 1	Joint compound	3% Chrysotile	
		Layer 2	Joint compound	2% Chrysotile	
		Layer 3	Gypsum wallboard	No Asbestos Detected	
52310.000-0032	Lay-in Ceiling Tile		Hallway, H101, ceiling		NVL Labs, Inc.
		Layer:	**Description:**	**Analysis:**	
		Layer 1	Gray, 2' x 4' ceiling tile with random fissures and stipple	No Asbestos Detected	
52310.000-0033	Lay-in Ceiling Tile		Room 202, ceiling		NVL Labs, Inc.
		Layer:	**Description:**	**Analysis:**	
		Layer 1	Gray, 2' x 4' ceiling tile with random fissures and stipple	No Asbestos Detected	
52310.000-0034	Lay-in Ceiling Tile		Room 201, ceiling		NVL Labs, Inc.
		Layer:	**Description:**	**Analysis:**	
		Layer 1	Gray, 2' x 4' ceiling tile with random fissures and stipple	No Asbestos Detected	
52310.000-0035	Lay-in Ceiling Tile		Room 107A, ceiling		NVL Labs, Inc.
		Layer:	**Description:**	**Analysis:**	
		Layer 1	Gray, 2' x 4' ceiling tile with random fissures and stipple	No Asbestos Detected	
52310.000-0036	Gypsum Wallboard/Joint Compound		Room 104E, ceiling		NVL Labs, Inc.
		Layer:	**Description:**	**Analysis:**	
		Layer 1	Joint compound	No Asbestos Detected	
		Layer 2	Gypsum wallboard	No Asbestos Detected	

Code	Material		Location	Results	Lab
52310.000-0037	Gypsum Wallboard/Joint Compound		Room 104, east wall at doors		NVL Labs, Inc.
		Layer:	**Description:**	**Analysis:**	
		Layer 1	Joint compound	No Asbestos Detected	
		Layer 2	Gypsum wallboard	No Asbestos Detected	
52310.000-0038	Lay-in Ceiling Tile		Room 104, ceiling		NVL Labs, Inc.
		Layer:	**Description:**	**Analysis:**	
		Layer 1	Gray, 2' x 4' ceiling tile with random fissures and stipple	No Asbestos Detected	
52310.000-0039	Lay-in Ceiling Tile		Room 104F, ceiling		NVL Labs, Inc.
		Layer:	**Description:**	**Analysis:**	
		Layer 1	Gray, 2' x 4' ceiling tile with random fissures and stipple	No Asbestos Detected	
52310.000-0040	Gypsum Wallboard/Joint Compound		Room 104C, ceiling		NVL Labs, Inc.
		Layer:	**Description:**	**Analysis:**	
		Layer 1	Joint compound	No Asbestos Detected	
		Layer 2	Gypsum wallboard	No Asbestos Detected	
52310.000-0041	Gypsum Wallboard/Joint Compound		Room 104C, east partition wall		NVL Labs, Inc.
		Layer:	**Description:**	**Analysis:**	
		Layer 1	Joint compound	No Asbestos Detected	
		Layer 2	Gypsum wallboard	No Asbestos Detected	
52310.000-0042	Plaster		Room 104B, northeast corner		NVL Labs, Inc.
		Layer:	**Description:**	**Analysis:**	
		Layer 1	Gray plaster	No Asbestos Detected	
		Layer 2	Gray plaster	No Asbestos Detected	
52310.000-0043	Plaster		Room 103, west wall		NVL Labs, Inc.
		Layer:	**Description:**	**Analysis:**	
		Layer 1	Gray plaster	No Asbestos Detected	
52310.000-0044	Gypsum Wallboard/Joint Compound		Room 100, south wall		NVL Labs, Inc.
		Layer:	**Description:**	**Analysis:**	
		Layer 1	Joint compound	No Asbestos Detected	
		Layer 2	Gypsum wallboard	No Asbestos Detected	

Code	Material	Location	Results	Lab
52310.000-0045	Glued-on Ceiling Tiles	Room 103, ceiling		NVL Labs, Inc.
	Layer:	**Description:**	**Analysis:**	
	Layer 1	Tan, 12" ceiling tile with random holes	No Asbestos Detected	
	Layer 2	Brown mastic	No Asbestos Detected	
	Layer 3	Paint/Plaster	No Asbestos Detected	
52310.000-0046	Glued-on Ceiling Tiles	Room 103, ceiling		NVL Labs, Inc.
	Layer:	**Description:**	**Analysis:**	
	Layer 1	Brown, 12" ceiling tile with random holes	No Asbestos Detected	
	Layer 2	White plaster skimcoat	No Asbestos Detected	
	Layer 3	Black mastic	No Asbestos Detected	
52310.000-0047	Plaster	Exterior, north vestibule, northeast corner		NVL Labs, Inc.
	Layer:	**Description:**	**Analysis:**	
	Layer 1	White plaster skimcoat	No Asbestos Detected	
	Layer 2	Gray plaster basecoat	No Asbestos Detected	
52310.000-0048	Gypsum Wallboard/Joint Compound	South Wing, stairs to attic, south wall		NVL Labs, Inc.
	Layer:	**Description:**	**Analysis:**	
	Layer 1	Joint compound	No Asbestos Detected	
	Layer 2	Joint compound	No Asbestos Detected	
	Layer 3	Gypsum wallboard	No Asbestos Detected	
52310.000-0049	Window Glazing Compound	Exterior, Room 106B, north window		NVL Labs, Inc.
	Layer:	**Description:**	**Analysis:**	
	Layer 1	Beige window glazing compound	No Asbestos Detected	
52310.000-0050	Window Glazing Compound	Exterior, Room 104, east window		NVL Labs, Inc.
	Layer:	**Description:**	**Analysis:**	
	Layer 1	Beige window glazing compound	No Asbestos Detected	
52310.000-0051	Window Glazing Compound	Exterior, Room 103, east window		NVL Labs, Inc.
	Layer:	**Description:**	**Analysis:**	
	Layer 1	Beige window glazing compound	No Asbestos Detected	

Code	Material	Location	Results	Lab
52310.000-0052	Window Glazing Compound	Exterior, Room 108, south window over doors		NVL Labs, Inc.
	Layer:	**Description:**	**Analysis:**	
	Layer 1	Beige window glazing compound	No Asbestos Detected	
52310.000-0053	Window Glazing Compound	Exterior, Room 107, north window		NVL Labs, Inc.
	Layer:	**Description:**	**Analysis:**	
	Layer 1	Beige window glazing compound	No Asbestos Detected	
52310.000-0054	Built-up Roofing	South Wing, over Room 104		NVL Labs, Inc.
	Layer:	**Description:**	**Analysis:**	
	Layer 1	Black asphaltic fibrous material with granules	No Asbestos Detected	
	Layer 2	Black roofing felt	No Asbestos Detected	
	Layer 3	Brown fibrous material	No Asbestos Detected	
	Layer 4	Black roofing felt	No Asbestos Detected	
52310.000-0055	Sealant	South Wing, over Room 104, north flashing		NVL Labs, Inc.
	Layer:	**Description:**	**Analysis:**	
	Layer 1	Black sealant	No Asbestos Detected	
52310.000-0056	Roof Penetration Sealant	South Wing, over Room 104, vent pipe		NVL Labs, Inc.
	Layer:	**Description:**	**Analysis:**	
	Layer 1	Black sealant	No Asbestos Detected	
	Layer 2	Black sealant	No Asbestos Detected	
52310.000-0057	Roofing Felt	South Wing, over Room 104, on ventilation equipment		NVL Labs, Inc.
	Layer:	**Description:**	**Analysis:**	
	Layer 1	Black roofing felt	No Asbestos Detected	
52310.000-0058	Brick/Mortar	Exterior, 2nd Floor, south side of Room 202		NVL Labs, Inc.
	Layer:	**Description:**	**Analysis:**	
	Layer 1	Red brick	No Asbestos Detected	
	Layer 2	Gray mortar	No Asbestos Detected	
52310.000-0059	Brick/Mortar	Exterior, 1st Floor, east side of Room 104		NVL Labs, Inc.
	Layer:	**Description:**	**Analysis:**	
	Layer 1	Red brick	No Asbestos Detected	
	Layer 2	Gray mortar	No Asbestos Detected	

Code	Material	Location	Results	Lab
52310.000-0060	Sealant	Exterior, Hallway H101, southeast door/perimeter		NVL Labs, Inc.
	Layer:	**Description:**	**Analysis:**	
	Layer 1	Gray sealant	No Asbestos Detected	
	Layer 2	Tan sealant	No Asbestos Detected	
52310.000-0061	Sealant	Exterior, Room 103, southeast door/perimeter		NVL Labs, Inc.
	Layer:	**Description:**	**Analysis:**	
	Layer 1	Gray sealant	No Asbestos Detected	
	Layer 2	Tan sealant	No Asbestos Detected	
52310.000-0062	Mastic	Room 105, chalkboard		NVL Labs, Inc.
	Layer:	**Description:**	**Analysis:**	
	Layer 1	Black mastic	No Asbestos Detected	
	Layer 2	Brown mastic	No Asbestos Detected	
	Layer 3	Green vinyl	No Asbestos Detected	
	Layer 4	Tan compressed fibrous material	No Asbestos Detected	
52310.000-0063	Sheet Floor Covering	Room 115, janitor's closet		NVL Labs, Inc.
	Layer:	**Description:**	**Analysis:**	
	Layer 1	Tan jute backing	No Asbestos Detected	
	Layer 2	Brown mastic	No Asbestos Detected	
	Layer 3	Brown vinyl	No Asbestos Detected	
	Layer 4	Brown mastic	No Asbestos Detected	
	Layer 5	Brown underlayment	No Asbestos Detected	
	Comments:	Flooring material layer results are out of order		
52310.000-0064	Joint Compound	Room 204E, northwest corner		NVL Labs, Inc.
	Layer:	**Description:**	**Analysis:**	
	Layer 1	Joint Compound, White	No Asbestos Detected	
	Layer 2	Joint Compound, Off-white	3% Chrysotile	
52310.000-0065	Gypsum Wallboard/Joint Compound	Room 204D, northwest corner		NVL Labs, Inc.
	Layer:	**Description:**	**Analysis:**	
	Layer 1	Joint compound	No Asbestos Detected	
	Layer 2	Gypsum wallboard	No Asbestos Detected	

Code	Material		Location	Results	Lab
52310.000-0066	Gypsum Wallboard/Joint Compound		Room 204C, west wall		NVL Labs, Inc.
		Layer:	**Description:**	**Analysis:**	
		Layer 1	Joint compound	No Asbestos Detected	
		Layer 2	Joint compound	No Asbestos Detected	
		Layer 3	Gypsum wallboard	No Asbestos Detected	
52310.000-0067	Gypsum Wallboard/Joint Compound		Room 204, north wall		NVL Labs, Inc.
		Layer:	**Description:**	**Analysis:**	
		Layer 1	Joint compound	No Asbestos Detected	
		Layer 2	Gypsum wallboard	No Asbestos Detected	
52310.000-0068	Gypsum Wallboard/Joint Compound		Room 203, north wall		NVL Labs, Inc.
		Layer:	**Description:**	**Analysis:**	
		Layer 1	Joint compound with yellow mesh material	No Asbestos Detected	
		Layer 2	Gypsum wallboard	No Asbestos Detected	
52310.000-0069	Gypsum Wallboard/Joint Compound		Hallway H201, north wall		NVL Labs, Inc.
		Layer:	**Description:**	**Analysis:**	
		Layer 1	Joint compound with yellow mesh material	No Asbestos Detected	
		Layer 2	Gypsum wallboard	No Asbestos Detected	
52310.000-0070	Sheet Floor Covering		Room 202		NVL Labs, Inc.
		Layer:	**Description:**	**Analysis:**	
		Layer 1	Green, red, & tan streaked 9" square pattern sheet vinyl	No Asbestos Detected	
		Layer 2	Jute backing with mastic	No Asbestos Detected	
		Layer 3	Gray felt	No Asbestos Detected	
52310.000-0071	Insulated Wiring		Attic, northwest access between room 207 and unfinished attic space		NVL Labs, Inc.
		Layer:	**Description:**	**Analysis:**	
		Layer 1	Tan woven insulation with asphaltic material	No Asbestos Detected	
		Layer 2	Black asphaltic material	No Asbestos Detected	

Code	Material		Location	Results	Lab
52310.000-0072	Insulated Wiring		Attic, at northeast penetration between rooms 206 and 207		NVL Labs, Inc.
		Layer:	**Description:**	**Analysis:**	
		Layer 1	White and blue woven insulation with asphaltic coating	No Asbestos Detected	
52310.000-0073	Insulated Wiring		Attic, at northeast penetration between rooms 206 and 207		NVL Labs, Inc.
		Layer:	**Description:**	**Analysis:**	
		Layer 1	Red, white, & blue woven insulation	No Asbestos Detected	
52310.000-0074	Insulated Wiring		Attic, northeast access between room 207 and unfinished attic space		NVL Labs, Inc.
		Layer:	**Description:**	**Analysis:**	
		Layer 1	Green woven insulation	No Asbestos Detected	
		Layer 2	Black asphaltic material	No Asbestos Detected	
		Layer 3	Beige woven insulation with green, red, & yellow filaments	No Asbestos Detected	
		Layer 4	Black asphaltic material	No Asbestos Detected	
52310.000-0075	Insulated Wiring		Crawlspace, at access hatch in room 104C		NVL Labs, Inc.
		Layer:	**Description:**	**Analysis:**	
		Layer 1	Beige woven insulation with black asphaltic coating	No Asbestos Detected	

Code	Material	Analysis	Location	Lab
PAINT				
LB52310.000-1001	Paint, Tan	180000.0 ppm	Roof, south wing, gable siding, metal substrate	NVL Labs, Inc.
LB52310.000-1002	Paint, Brown	2200.0 ppm	2nd Floor, Room V201, south window, wood substrate	NVL Labs, Inc.
LB52310.000-1003	Paint, White/Green	19000.0 ppm	2nd Floor, Room V201, south wall, burlap/plaster substrate	NVL Labs, Inc.
LB52310.000-1004	Paint, White	1800.0 ppm	1st Floor, Room 104F, east wall, brick substrate	NVL Labs, Inc.
LB52310.000-1005	Paint, White	37000.0 ppm	1st Floor, Room 108, south entrance door, wood substrate	NVL Labs, Inc.
LB52310.000-1006	Paint, Brown	200000.0 ppm	Exterior of Room 104, east window, wood substrate	NVL Labs, Inc.
LB52310.000-1007	Paint, Brown	170000.0 ppm	Exterior of Room 106B, north window, wood substrate	NVL Labs, Inc.
LB52310.000-1008	Paint, White	3400.0 ppm	1st Floor, Room 103A, south wall, plaster substrate	NVL Labs, Inc.
LB52310.000-1009	Paint, Tan/Red	110000.0 ppm	Exterior, eaves at Hallway H101, above southeast doorway, metal substrate	NVL Labs, Inc.
LB52310.000-1010	Paint, Tan	54000.0 ppm	Exterior of Room 104D, east foundation wall, concrete substrate	NVL Labs, Inc.
LB52310.000-1011	Paint, White/Green	100.0 ppm	1st Floor, Room 104, west window, wood substrate	NVL Labs, Inc.
LB52310.000-1012	Paint, White	190.0 ppm	South Attic Space, above Room 207, roof truss, wood substrate	NVL Labs, Inc.
LB52310.000-1013	Paint, White	1400.0 ppm	1st Floor, Room 104B, ceiling, plaster substrate	NVL Labs, Inc.

June 26, 2017

David Burrows
PBS Environmental (Eugene)
2645 Willamette Street Suite A
Eugene, OR 97405

NVL LABS
INDUSTRIAL HYGIENE SERVICES
Laboratory | Management | Training

RE: Bulk Asbestos Fiber Analysis; NVL Batch # 1711218.00

Client Project: 52310.000
Location: OSU - Merryfield Hall

Dear Mr. Burrows,

Enclosed please find test results for the 45 sample(s) submitted to our laboratory for analysis on 6/22/2017.

Examination of these samples was conducted for the presence of identifiable asbestos fibers using polarized light microscopy (PLM) with dispersion staining in accordance with both **EPA 600/M4-82-020**, Interim Method for the Determination of Asbestos in Bulk Insulation Samples and **EPA 600/R-93/116** Method for the Determination of Asbestos in Bulk Building Materials.

For samples containing more than one separable layer of materials, the report will include findings for each layer (labeled Layer 1 and Layer 2, etc. for each individual layer). The asbestos concentration in the sample is determined by calibrated visual estimation.

For those samples with asbestos concentrations between 1 and 10 percent based on visual estimation, the EPA recommends a procedure known as point counting (NESHAPS, 40 CFR Part 61). Point counting is a statistically more accurate means of quantification for samples with low concentrations of asbestos.

The detection limit for the calibrated visual estimation is <1%, 400 point counts is 0.25% and 1000 point counts is 0.1%

Samples are archived for two weeks following analysis. Samples that are not retrieved by the client are discarded after two weeks.

Thank you for using our laboratory services. Please do not hesitate to call if there is anything further we can assist you with.

Sincerely,

Nick Ly, Technical Director

Enc.: Sample Results

NVLAP Lab Code: 102063-0

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Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: PBS Environmental (Eugene)
Address: 2645 Willamette Street Suite A
Eugene, OR 97405

Attention: Mr. David Burrows
Project Location: OSU - Merryfield Hall

Batch #: 1711218.00
Client Project #: 52310.000
Date Received: 6/22/2017
Samples Received: 45
Samples Analyzed: 45
Method: EPA/600/R-93/116 & EPA/600/M4-82-020

Lab ID: 17061913 **Client Sample #: 52310.000-0001**
Location: OSU - Merryfield hall

Layer 1 of 2 **Description:** Black sheet vinyl

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Vinyl/Binder, Fine grains	Cellulose 4%	**None Detected ND**

Layer 2 of 2 **Description:** Tan woven fibrous backing with mastic

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Binder/Filler, Mastic/Binder	Cellulose 67%	**None Detected ND**

Lab ID: 17061914 **Client Sample #: 52310.000-0002**
Location: OSU - Merryfield hall

Layer 1 of 1 **Description:** Black asphaltic fibrous felt with debris

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Asphalt/Binder, Binder/Filler, Wood flakes	Cellulose 66%	**None Detected ND**
	Wood fibers 7%	

Lab ID: 17061915 **Client Sample #: 52310.000-0003**
Location: OSU - Merryfield hall

Layer 1 of 4 **Description:** White woven fibrous material with gray/yellow mastic

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Binder/Filler, Mastic/Binder	Synthetic fibers 64%	**None Detected ND**

Layer 2 of 4 **Description:** Brown vinyl tile

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Vinyl/Binder, Mineral grains	Cellulose 2%	**Chrysotile 3%**

Layer 3 of 4 **Description:** Black asphaltic mastic

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Asphalt/Binder	Cellulose 4%	**None Detected ND**

Sampled by: Client
Analyzed by: Lori Tseng **Date:** 06/23/2017
Reviewed by: Nick Ly **Date:** 06/26/2017

Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

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Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: PBS Environmental (Eugene)
Address: 2645 Willamette Street Suite A
Eugene, OR 97405

Attention: Mr. David Burrows
Project Location: OSU - Merryfield Hall

Batch #: 1711218.00
Client Project #: 52310.000
Date Received: 6/22/2017
Samples Received: 45
Samples Analyzed: 45
Method: EPA/600/R-93/116
& EPA/600/M4-82-020

			Synthetic fibers 3%	
Layer 4 of 4	**Description:** Black asphaltic fibrous backing with mastic (on wood)			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Asphalt/Binder, Binder/Filler, Wood flakes	Cellulose 62%		**None Detected ND**
	Mastic/Binder	Synthetic fibers 4%		
		Wood fibers 14%		

Lab ID: 17061916 **Client Sample #: 52310.000-0004**
Location: OSU - Merryfield hall

Layer 1 of 5	**Description:** Gray sheet vinyl		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Vinyl/Binder, Binder/Filler	None Detected ND	**None Detected ND**
Layer 2 of 5	**Description:** White soft mastic		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Mastic/Binder	Cellulose 2%	**None Detected ND**
Layer 3 of 5	**Description:** Tan compressed fibrous material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Binder/Filler, Wood flakes	Cellulose 62%	**None Detected ND**
		Wood fibers 15%	
Layer 4 of 5	**Description:** Brown vinyl tile		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Vinyl/Binder, Mineral grains	Cellulose 2%	**Chrysotile 2%**
Layer 5 of 5	**Description:** Black asphaltic fibrous backing with mastic		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Asphalt/Binder, Binder/Filler, Mastic/Binder	Cellulose 63%	**None Detected ND**

Sampled by: Client
Analyzed by: Lori Tseng **Date:** 06/23/2017
Reviewed by: Nick Ly **Date:** 06/26/2017

Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

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Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: PBS Environmental (Eugene)
Address: 2645 Willamette Street Suite A
Eugene, OR 97405

Attention: Mr. David Burrows
Project Location: OSU - Merryfield Hall

Batch #: 1711218.00
Client Project #: 52310.000
Date Received: 6/22/2017
Samples Received: 45
Samples Analyzed: 45
Method: EPA/600/R-93/116
& EPA/600/M4-82-020

			Synthetic fibers	4%

Lab ID: 17061917 **Client Sample #: 52310.000-0005**
Location: OSU - Merryfield hall

Layer 1 of 2	**Description:** Brown rubbery material			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Rubber/Binder	None Detected	ND	**None Detected ND**
Layer 2 of 2	**Description:** Brown brittle mastic with paint			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Mastic/Binder, Paint, Fine grains	Cellulose	5%	**None Detected ND**

Lab ID: 17061918 **Client Sample #: 52310.000-0006**
Location: OSU - Merryfield hall

Layer 1 of 2	**Description:** Black rubbery material			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Rubber/Binder	None Detected	ND	**None Detected ND**
Layer 2 of 2	**Description:** Brown brittle mastic with paint			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Mastic/Binder, Paint	Cellulose	6%	**None Detected ND**

Lab ID: 17061919 **Client Sample #: 52310.000-0007**
Location: OSU - Merryfield hall

Layer 1 of 2	**Description:** Green sheet vinyl			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Vinyl/Binder, Fine grains	Cellulose	4%	**None Detected ND**
Layer 2 of 2	**Description:** Gray fibrous backing with mastic and debris			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Binder/Filler, Mastic/Binder, Wood flakes	Cellulose	66%	**None Detected ND**

Sampled by: Client
Analyzed by: Lori Tseng **Date:** 06/23/2017
Reviewed by: Nick Ly **Date:** 06/26/2017

Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

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Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: PBS Environmental (Eugene)
Address: 2645 Willamette Street Suite A
Eugene, OR 97405

Attention: Mr. David Burrows
Project Location: OSU - Merryfield Hall

Batch #: 1711218.00
Client Project #: 52310.000
Date Received: 6/22/2017
Samples Received: 45
Samples Analyzed: 45
Method: EPA/600/R-93/116
& EPA/600/M4-82-020

		Synthetic fibers	4%
		Wood fibers	3%

Lab ID: 17061920 **Client Sample #: 52310.000-0008**
Location: OSU - Merryfield hall

Layer 1 of 6	**Description:** Brown vinyl tile			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Vinyl/Binder, Mineral grains	Cellulose	3%	**None Detected ND**
Layer 2 of 6	**Description:** Black asphaltic mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Asphalt/Binder	Cellulose	3%	**Chrysotile 3%**
Layer 3 of 6	**Description:** Black sheet vinyl			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Vinyl/Binder, Fine grains	Cellulose	4%	**None Detected ND**
Layer 4 of 6	**Description:** Gray fibrous backing			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Binder/Filler	Cellulose	64%	**None Detected ND**
		Synthetic fibers	4%	
Layer 5 of 6	**Description:** Black asphaltic fibrous backing with mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Asphalt/Binder, Binder/Filler, Mastic/Binder	Cellulose	64%	**None Detected ND**
		Synthetic fibers	5%	
Layer 6 of 6	**Description:** Brown wood debris			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Wood flakes, Binder/Filler	Wood fibers	34%	**None Detected ND**

Sampled by: Client
Analyzed by: Lori Tseng **Date:** 06/23/2017
Reviewed by: Nick Ly **Date:** 06/26/2017

Nick Ly, Technical Director

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Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: PBS Environmental (Eugene)
Address: 2645 Willamette Street Suite A
Eugene, OR 97405

Attention: Mr. David Burrows
Project Location: OSU - Merryfield Hall

Batch #: 1711218.00
Client Project #: 52310.000
Date Received: 6/22/2017
Samples Received: 45
Samples Analyzed: 45
Method: EPA/600/R-93/116 & EPA/600/M4-82-020

Lab ID: 17061921 **Client Sample #: 52310.000-0009**
Location: OSU - Merryfield hall

Layer 1 of 3	**Description:** Brown sheet vinyl			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Vinyl/Binder, Fine grains	Cellulose	3%	**None Detected ND**
Layer 2 of 3	**Description:** Tan woven fibrous backing with mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Binder/Filler, Mastic/Binder	Cellulose	70%	**None Detected ND**
Layer 3 of 3	**Description:** Brown wood debris			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Wood flakes, Binder/Filler	Wood fibers	35%	**None Detected ND**

Lab ID: 17061922 **Client Sample #: 52310.000-0010**
Location: OSU - Merryfield hall

Layer 1 of 2	**Description:** Green sheet vinyl			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Vinyl/Binder, Fine grains	Cellulose	4%	**None Detected ND**
Layer 2 of 2	**Description:** Tan woven fibrous backing with mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Binder/Filler, Mastic/Binder	Cellulose	76%	**None Detected ND**

Lab ID: 17061923 **Client Sample #: 52310.000-0011**
Location: OSU - Merryfield hall

Layer 1 of 1	**Description:** Black asphaltic fibrous felt with mastic and debris			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Asphalt/Binder, Binder/Filler, Wood flakes	Cellulose	67%	**None Detected ND**
		Synthetic fibers	3%	

Sampled by: Client
Analyzed by: Lori Tseng **Date:** 06/23/2017
Reviewed by: Nick Ly **Date:** 06/26/2017

Nick Ly, Technical Director

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Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: PBS Environmental (Eugene)
Address: 2645 Willamette Street Suite A
Eugene, OR 97405

Attention: Mr. David Burrows
Project Location: OSU - Merryfield Hall

Batch #: 1711218.00
Client Project #: 52310.000
Date Received: 6/22/2017
Samples Received: 45
Samples Analyzed: 45
Method: EPA/600/R-93/116 & EPA/600/M4-82-020

			Wood fibers	4%

Lab ID: 17061924 **Client Sample #: 52310.000-0012**
Location: OSU - Merryfield hall

Layer 1 of 2	**Description:** Black rubbery material				
	Non-Fibrous Materials:	Other Fibrous Materials:		%	**Asbestos Type: %**
	Rubber/Binder	None Detected		ND	**None Detected ND**
Layer 2 of 2	**Description:** Yellow/brown brittle mastic with paint				
	Non-Fibrous Materials:	Other Fibrous Materials:		%	**Asbestos Type: %**
	Mastic/Binder, Binder/Filler, Paint	Cellulose	5%		**None Detected ND**

Lab ID: 17061925 **Client Sample #: 52310.000-0013**
Location: OSU - Merryfield hall

Layer 1 of 4	**Description:** Brown sheet vinyl				
	Non-Fibrous Materials:	Other Fibrous Materials:		%	**Asbestos Type: %**
	Vinyl/Binder, Binder/Filler	None Detected		ND	**None Detected ND**
Layer 2 of 4	**Description:** Gray fibrous backing with mastic				
	Non-Fibrous Materials:	Other Fibrous Materials:		%	**Asbestos Type: %**
	Binder/Filler, Mastic/Binder	Cellulose	5%		**Chrysotile 52%**
Layer 3 of 4	**Description:** Brown wood debris with mastic				
	Non-Fibrous Materials:	Other Fibrous Materials:		%	**Asbestos Type: %**
	Wood flakes, Mastic/Binder	Wood fibers	34%		**None Detected ND**
		Cellulose	3%		
Layer 4 of 4	**Description:** Black asphaltic fibrous felt with debris				
	Non-Fibrous Materials:	Other Fibrous Materials:		%	**Asbestos Type: %**
	Asphalt/Binder, Binder/Filler, Wood flakes	Cellulose	65%		**None Detected ND**

Sampled by: Client
Analyzed by: Lori Tseng **Date:** 06/23/2017
Reviewed by: Nick Ly **Date:** 06/26/2017

Nick Ly, Technical Director

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Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: PBS Environmental (Eugene)
Address: 2645 Willamette Street Suite A
Eugene, OR 97405

Attention: Mr. David Burrows
Project Location: OSU - Merryfield Hall

Batch #: 1711218.00
Client Project #: 52310.000
Date Received: 6/22/2017
Samples Received: 45
Samples Analyzed: 45
Method: EPA/600/R-93/116
& EPA/600/M4-82-020

		Synthetic fibers 4%	
		Wood fibers 3%	

Lab ID: 17061926 **Client Sample #: 52310.000-0014**
Location: OSU - Merryfield hall

Layer 1 of 2	**Description:** Brown compressed fibrous material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Binder/Filler, Wood flakes	Cellulose 53%	**None Detected ND**
		Wood fibers 9%	
Layer 2 of 2	**Description:** Brown wood debris		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Wood flakes	Wood fibers 34%	**None Detected ND**

Lab ID: 17061927 **Client Sample #: 52310.000-0015**
Location: OSU - Merryfield hall

Layer 1 of 6	**Description:** Gray sheet vinyl		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Vinyl/Binder, Synthetic foam	None Detected ND	**None Detected ND**
Layer 2 of 6	**Description:** Gray fibrous backing with mastic		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Binder/Filler, Mastic/Binder	Cellulose 65%	**None Detected ND**
		Glass fibers 4%	
Layer 3 of 6	**Description:** Brown wood debris		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Wood flakes	Wood fibers 35%	**None Detected ND**

Sampled by: Client
Analyzed by: Lori Tseng **Date:** 06/23/2017
Reviewed by: Nick Ly **Date:** 06/26/2017

Nick Ly, Technical Director

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Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: PBS Environmental (Eugene)
Address: 2645 Willamette Street Suite A
Eugene, OR 97405

Attention: Mr. David Burrows
Project Location: OSU - Merryfield Hall

Batch #: 1711218.00
Client Project #: 52310.000
Date Received: 6/22/2017
Samples Received: 45
Samples Analyzed: 45
Method: EPA/600/R-93/116 & EPA/600/M4-82-020

Layer 4 of 6	**Description:** Brown sheet vinyl			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Vinyl/Binder, Fine grains	Cellulose	4%	**None Detected ND**
Layer 5 of 6	**Description:** Tan woven fibrous backing with mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Binder/Filler, Mastic/Binder	Cellulose	65%	**None Detected ND**
Layer 6 of 6	**Description:** Gray fibrous backing with mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Binder/Filler, Mastic/Binder	Cellulose	64%	**None Detected ND**
		Synthetic fibers	4%	

Lab ID: 17061928 **Client Sample #: 52310.000-0016**
Location: OSU - Merryfield hall

Layer 1 of 1	**Description:** Black asphaltic fibrous felt with debris			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Asphalt/Binder, Binder/Filler, Wood flakes	Cellulose	67%	**None Detected ND**
		Wood fibers	4%	

Lab ID: 17061929 **Client Sample #: 52310.000-0017**
Location: OSU - Merryfield hall
Comments: Asbestos found mainly in black mastic, Layer 2.

Layer 1 of 6	**Description:** Brown vinyl tile			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Vinyl/Binder, Mineral grains	Cellulose	4%	**None Detected ND**
Layer 2 of 6	**Description:** Black asphaltic mastic with fibrous backing			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Asphalt/Binder, Binder/Filler, Mastic/Binder	Cellulose	62%	**Chrysotile 2%**

Sampled by: Client
Analyzed by: Lori Tseng **Date:** 06/23/2017
Reviewed by: Nick Ly **Date:** 06/26/2017

Nick Ly, Technical Director

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Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: PBS Environmental (Eugene)
Address: 2645 Willamette Street Suite A
Eugene, OR 97405

Attention: Mr. David Burrows
Project Location: OSU - Merryfield Hall

Batch #: 1711218.00
Client Project #: 52310.000
Date Received: 6/22/2017
Samples Received: 45
Samples Analyzed: 45
Method: EPA/600/R-93/116
& EPA/600/M4-82-020

			Synthetic fibers 4%	
Layer 3 of 6	**Description:** Brown wood debris			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Wood flakes	Wood fibers 35%		**None Detected ND**
Layer 4 of 6	**Description:** Gray sheet vinyl			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Vinyl/Binder, Fine grains	Cellulose 3%		**None Detected ND**
Layer 5 of 6	**Description:** Tan fibrous backing with mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Binder/Filler, Mastic/Binder	Cellulose 67%		**None Detected ND**
Layer 6 of 6	**Description:** Gray fibrous backing			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Binder/Filler	Cellulose 64%		**None Detected ND**
		Synthetic fibers 5%		

Lab ID: 17061930 **Client Sample #: 52310.000-0018**

Location: OSU - Merryfield hall

Layer 1 of 4	**Description:** Brown sheet vinyl			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Vinyl/Binder, Fine grains	Cellulose 4%		**None Detected ND**
Layer 2 of 4	**Description:** Tan woven fibrous backing with mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Binder/Filler, Mastic/Binder	Cellulose 64%		**None Detected ND**
		Synthetic fibers 4%		

Sampled by: Client
Analyzed by: Lori Tseng **Date:** 06/23/2017
Reviewed by: Nick Ly **Date:** 06/26/2017

Nick Ly, Technical Director

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Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: PBS Environmental (Eugene)
Address: 2645 Willamette Street Suite A
Eugene, OR 97405

Attention: Mr. David Burrows
Project Location: OSU - Merryfield Hall

Batch #: 1711218.00
Client Project #: 52310.000
Date Received: 6/22/2017
Samples Received: 45
Samples Analyzed: 45
Method: EPA/600/R-93/116 & EPA/600/M4-82-020

Layer 3 of 4	**Description:** Gray fibrous backing with mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Binder/Filler	Cellulose	64%	**None Detected ND**
		Synthetic fibers	5%	
Layer 4 of 4	**Description:** Brown wood debris			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Wood flakes	Wood fibers	35%	**None Detected ND**

Lab ID: 17061931 **Client Sample #: 52310.000-0019**
Location: OSU - Merryfield hall

Layer 1 of 6	**Description:** Gray sheet vinyl			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Vinyl/Binder, Fine grains	Cellulose	3%	**None Detected ND**
Layer 2 of 6	**Description:** Tan woven fibrous backing with yellow mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Binder/Filler, Mastic/Binder	Cellulose	65%	**None Detected ND**
Layer 3 of 6	**Description:** Brown wood debris			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Wood flakes	Wood fibers	31%	**None Detected ND**
Layer 4 of 6	**Description:** Brown vinyl tile			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Vinyl/Binder, Mineral grains	Cellulose	2%	**None Detected ND**
Layer 5 of 6	**Description:** Brown brittle mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Mastic/Binder	Cellulose	5%	**None Detected ND**

Sampled by: Client
Analyzed by: Lori Tseng **Date:** 06/23/2017
Reviewed by: Nick Ly **Date:** 06/26/2017

Nick Ly, Technical Director

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Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: PBS Environmental (Eugene)
Address: 2645 Willamette Street Suite A
Eugene, OR 97405

Attention: Mr. David Burrows
Project Location: OSU - Merryfield Hall

Batch #: 1711218.00
Client Project #: 52310.000
Date Received: 6/22/2017
Samples Received: 45
Samples Analyzed: 45
Method: EPA/600/R-93/116
& EPA/600/M4-82-020

Layer 6 of 6	**Description:** Brown wood debris			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Wood flakes	Wood fibers	34%	**None Detected ND**

Lab ID: 17061932 **Client Sample #: 52310.000-0020**
Location: OSU - Merryfield Hall

Layer 1 of 3	**Description:** Black rubbery material			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Rubber/Binder	None Detected	ND	**None Detected ND**
Layer 2 of 3	**Description:** Brown brittle mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Mastic/Binder	Cellulose	5%	**None Detected ND**
Layer 3 of 3	**Description:** White trace compacted powdery material with paint			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Calcareous particles, Paint	Cellulose	2%	**None Detected ND**

Lab ID: 17061933 **Client Sample #: 52310.000-0021**
Location: OSU - Merryfield hall

Layer 1 of 3	**Description:** Yellow brittle mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Mastic/Binder	Cellulose	5%	**None Detected ND**
Layer 2 of 3	**Description:** White soft mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Mastic/Binder	Cellulose	3%	**None Detected ND**
		Synthetic fibers	2%	

Sampled by: Client
Analyzed by: Lori Tseng **Date:** 06/23/2017
Reviewed by: Nick Ly **Date:** 06/26/2017

Nick Ly, Technical Director

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Bulk Asbestos Fibers Analysis

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Client: PBS Environmental (Eugene)
Address: 2645 Willamette Street Suite A
Eugene, OR 97405

Attention: Mr. David Burrows
Project Location: OSU - Merryfield Hall

Batch #: 1711218.00
Client Project #: 52310.000
Date Received: 6/22/2017
Samples Received: 45
Samples Analyzed: 45
Method: EPA/600/R-93/116 & EPA/600/M4-82-020

Layer 3 of 3 **Description:** White/beige compacted powdery material with paint

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Calcareous particles, Paint, Binder/Filler	Cellulose 3%	**None Detected ND**

Lab ID: 17061934 **Client Sample #: 52310.000-0022**
Location: OSU - Merryfield hall

Layer 1 of 2 **Description:** White compacted powdery material with paint

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Calcareous particles, Paint, Binder/Filler	Cellulose 3%	**None Detected ND**

Layer 2 of 2 **Description:** White chalky material with paper

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Binder/Filler, Gypsum/Binder, Mica	Cellulose 24%	**None Detected ND**
	Glass fibers 4%	

Lab ID: 17061935 **Client Sample #: 52310.000-0023**
Location: OSU - Merryfield hall

Layer 1 of 1 **Description:** Tan woven fibrous material with paint and mastic

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Binder/Filler, Paint, Mastic/Binder	Cellulose 67%	**None Detected ND**

Lab ID: 17061936 **Client Sample #: 52310.000-0024**
Location: OSU - Merryfield hall

Layer 1 of 2 **Description:** White brittle material with mastic

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Binder/Filler, Calcareous particles, Mastic/Binder	Cellulose 2%	**None Detected ND**

Layer 2 of 2 **Description:** Gray sandy/brittle material

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Binder/Filler, Sand, Mineral grains	Synthetic fibers 3%	**None Detected ND**

Sampled by: Client
Analyzed by: Lori Tseng **Date:** 06/23/2017
Reviewed by: Nick Ly **Date:** 06/26/2017

Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

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Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: PBS Environmental (Eugene)
Address: 2645 Willamette Street Suite A
Eugene, OR 97405

Attention: Mr. David Burrows
Project Location: OSU - Merryfield Hall

Batch #: 1711218.00
Client Project #: 52310.000
Date Received: 6/22/2017
Samples Received: 45
Samples Analyzed: 45
Method: EPA/600/R-93/116
& EPA/600/M4-82-020

		Cellulose 1%	

Lab ID: 17061937 **Client Sample #: 52310.000-0025**
Location: OSU - Merryfield hall

Layer 1 of 3	**Description:** White compacted powdery material with paint and interwoven fibrous material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Calcareous particles, Paint, Binder/Filler	Glass fibers 20%	**None Detected ND**
		Cellulose 2%	
Layer 2 of 3	**Description:** White brittle material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Binder/Filler, Calcareous binder	Cellulose 2%	**None Detected ND**
Layer 3 of 3	**Description:** Gray sandy/brittle material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Binder/Filler, Sand, Mineral grains	Synthetic fibers 2%	**None Detected ND**
		Cellulose 1%	

Lab ID: 17061938 **Client Sample #: 52310.000-0026**
Location: OSU - Merryfield hall

Layer 1 of 2	**Description:** Gray layered fibrous material with paint and mastic		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Binder/Filler, Paint, Mastic/Binder	Cellulose 9%	**Chrysotile 54%**
Layer 2 of 2	**Description:** Trace tan fibrous material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Binder/Filler	Cellulose 7%	**Chrysotile 50%**

Lab ID: 17061939 **Client Sample #: 52310.000-0027**
Location: OSU - Merryfield hall

Sampled by: Client
Analyzed by: Lori Tseng **Date:** 06/23/2017
Reviewed by: Nick Ly **Date:** 06/26/2017

Nick Ly, Technical Director

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Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: PBS Environmental (Eugene)
Address: 2645 Willamette Street Suite A
Eugene, OR 97405

Attention: Mr. David Burrows
Project Location: OSU - Merryfield Hall

Batch #: 1711218.00
Client Project #: 52310.000
Date Received: 6/22/2017
Samples Received: 45
Samples Analyzed: 45
Method: EPA/600/R-93/116 & EPA/600/M4-82-020

Layer 1 of 2	**Description:** White brittle material			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Binder/Filler, Calcareous binder	Cellulose	1%	**None Detected ND**
Layer 2 of 2	**Description:** Gray sandy/brittle material			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Binder/Filler, Sand, Mineral grains	Cellulose	3%	**None Detected ND**

Lab ID: 17061940 **Client Sample #: 52310.000-0028**
Location: OSU - Merryfield hall

Layer 1 of 2	**Description:** White compacted powdery material with paint and paper			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Calcareous particles, Paint, Binder/Filler	Cellulose	22%	**None Detected ND**
Layer 2 of 2	**Description:** White chalky material with paper			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Binder/Filler, Gypsum/Binder	Cellulose	29%	**None Detected ND**

Lab ID: 17061941 **Client Sample #: 52310.000-0029**
Location: OSU - Merryfield hall

Layer 1 of 3	**Description:** White compacted powdery material with paint			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Calcareous particles, Paint	Cellulose	2%	**Chrysotile 2%**
Layer 2 of 3	**Description:** White compacted powdery material with paper			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Calcareous particles, Binder/Filler	Cellulose	23%	**Chrysotile 3%**
Layer 3 of 3	**Description:** White chalky material with paper			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Binder/Filler, Gypsum/Binder, Mica	Cellulose	24%	**None Detected ND**

Sampled by: Client
Analyzed by: Lori Tseng **Date:** 06/23/2017
Reviewed by: Nick Ly **Date:** 06/26/2017

Nick Ly, Technical Director

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Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: PBS Environmental (Eugene)
Address: 2645 Willamette Street Suite A
Eugene, OR 97405

Attention: Mr. David Burrows
Project Location: OSU - Merryfield Hall

Batch #: 1711218.00
Client Project #: 52310.000
Date Received: 6/22/2017
Samples Received: 45
Samples Analyzed: 45
Method: EPA/600/R-93/116 & EPA/600/M4-82-020

		Glass fibers 4%	

Lab ID: 17061942 **Client Sample #: 52310.000-0030**
Location: OSU - Merryfield hall

Layer 1 of 3	**Description:** White compacted powdery material with paint		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Calcareous particles, Paint, Binder/Filler	Cellulose 3%	**None Detected ND**
Layer 2 of 3	**Description:** White compacted powdery material with paper		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Calcareous particles, Binder/Filler	Cellulose 24%	**None Detected ND**
Layer 3 of 3	**Description:** White chalky material with paper		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Binder/Filler, Gypsum/Binder	Cellulose 25%	**None Detected ND**

Lab ID: 17061943 **Client Sample #: 52310.000-0031**
Location: OSU - Merryfield hall

Layer 1 of 3	**Description:** Beige compacted powdery material with paint		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Calcareous particles, Paint, Binder/Filler	Cellulose 2%	**Chrysotile 3%**
Layer 2 of 3	**Description:** Beige compacted powdery material with paper		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Calcareous particles, Binder/Filler	Cellulose 23%	**Chrysotile 2%**
Layer 3 of 3	**Description:** White chalky material with paper		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Binder/Filler, Gypsum/Binder	Cellulose 28%	**None Detected ND**

Lab ID: 17061944 **Client Sample #: 52310.000-0032**
Location: OSU - Merryfield hall

Sampled by: Client
Analyzed by: Lori Tseng **Date:** 06/23/2017
Reviewed by: Nick Ly **Date:** 06/26/2017

Nick Ly, Technical Director

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Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: PBS Environmental (Eugene)
Address: 2645 Willamette Street Suite A
Eugene, OR 97405

Attention: Mr. David Burrows
Project Location: OSU - Merryfield Hall

Batch #: 1711218.00
Client Project #: 52310.000
Date Received: 6/22/2017
Samples Received: 45
Samples Analyzed: 45
Method: EPA/600/R-93/116 & EPA/600/M4-82-020

Layer 1 of 1 **Description:** Gray fibrous material with paint

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Binder/Filler, Paint, Perlite	Cellulose 35%	**None Detected ND**
Glass beads	Glass fibers 32%	

Lab ID: 17061945 **Client Sample #: 52310.000-0033**
Location: OSU - Merryfield hall

Layer 1 of 1 **Description:** Gray fibrous material with paint

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Binder/Filler, Paint, Perlite	Cellulose 34%	**None Detected ND**
Glass beads	Glass fibers 36%	

Lab ID: 17061946 **Client Sample #: 52310.000-0034**
Location: OSU - Merryfield hall

Layer 1 of 1 **Description:** Gray fibrous material with paint

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Binder/Filler, Paint, Perlite	Cellulose 36%	**None Detected ND**
Glass beads	Glass fibers 32%	

Lab ID: 17061947 **Client Sample #: 52310.000-0035**
Location: OSU - Merryfield hall

Layer 1 of 1 **Description:** Gray fibrous material with paint

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Binder/Filler, Paint, Perlite	Cellulose 38%	**None Detected ND**
Glass beads	Glass fibers 35%	

Lab ID: 17061948 **Client Sample #: 52310.000-0036**
Location: OSU - Merryfield hall

Sampled by: Client
Analyzed by: Lori Tseng **Date:** 06/23/2017
Reviewed by: Nick Ly **Date:** 06/26/2017

Nick Ly, Technical Director

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Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: PBS Environmental (Eugene)
Address: 2645 Willamette Street Suite A
Eugene, OR 97405

Attention: Mr. David Burrows
Project Location: OSU - Merryfield Hall

Batch #: 1711218.00
Client Project #: 52310.000
Date Received: 6/22/2017
Samples Received: 45
Samples Analyzed: 45
Method: EPA/600/R-93/116
& EPA/600/M4-82-020

Layer 1 of 2 **Description:** White compacted powdery material with paint and interwoven fibrous material

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Calcareous particles, Paint, Binder/Filler	Glass fibers 10%	**None Detected ND**
	Cellulose 2%	

Layer 2 of 2 **Description:** White chalky material with paper

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Binder/Filler, Gypsum/Binder	Cellulose 24%	**None Detected ND**
	Glass fibers 4%	

Lab ID: 17061949 **Client Sample #: 52310.000-0037**
Location: OSU - Merryfield hall

Layer 1 of 2 **Description:** White compacted powdery material

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Calcareous binder, Binder/Filler	Cellulose 2%	**None Detected ND**

Layer 2 of 2 **Description:** Gray chalky material with paper

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Binder/Filler, Gypsum/Binder	Cellulose 25%	**None Detected ND**
	Glass fibers 5%	

Lab ID: 17061950 **Client Sample #: 52310.000-0038**
Location: OSU - Merryfield hall

Layer 1 of 1 **Description:** Gray fibrous material with paint

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Binder/Filler, Paint, Perlite	Cellulose 35%	**None Detected ND**
	Glass fibers 34%	

Sampled by: Client
Analyzed by: Lori Tseng **Date:** 06/23/2017
Reviewed by: Nick Ly **Date:** 06/26/2017

Nick Ly, Technical Director

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Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: PBS Environmental (Eugene)
Address: 2645 Willamette Street Suite A
Eugene, OR 97405

Attention: Mr. David Burrows
Project Location: OSU - Merryfield Hall

Batch #: 1711218.00
Client Project #: 52310.000
Date Received: 6/22/2017
Samples Received: 45
Samples Analyzed: 45
Method: EPA/600/R-93/116 & EPA/600/M4-82-020

Lab ID: 17061951 **Client Sample #: 52310.000-0039**
Location: OSU - Merryfield hall

Layer 1 of 1 **Description:** Gray fibrous material with paint

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Binder/Filler, Paint, Perlite	Cellulose 33%	**None Detected ND**
Glass beads	Glass fibers 31%	

Lab ID: 17061952 **Client Sample #: 52310.000-0040**
Location: OSU - Merryfield hall

Layer 1 of 2 **Description:** Gray compacted powdery material with paint

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Calcareous particles, Paint, Binder/Filler	Cellulose 4%	**None Detected ND**

Layer 2 of 2 **Description:** White chalky material with paper

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Binder/Filler, Gypsum/Binder, Wood flakes	Cellulose 29%	**None Detected ND**
	Wood fibers 4%	

Lab ID: 17061953 **Client Sample #: 52310.000-0041**
Location: OSU - Merryfield hall

Layer 1 of 2 **Description:** Off-white compacted powdery material with paint

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Calcareous particles, Paint	Cellulose 3%	**None Detected ND**

Layer 2 of 2 **Description:** White chalky material with paper

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Binder/Filler, Gypsum/Binder, Mica	Cellulose 24%	**None Detected ND**
	Glass fibers 4%	

Sampled by: Client
Analyzed by: Lori Tseng **Date:** 06/23/2017
Reviewed by: Nick Ly **Date:** 06/26/2017

Nick Ly, Technical Director

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Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: PBS Environmental (Eugene)
Address: 2645 Willamette Street Suite A
Eugene, OR 97405

Attention: Mr. David Burrows
Project Location: OSU - Merryfield Hall

Batch #: 1711218.00
Client Project #: 52310.000
Date Received: 6/22/2017
Samples Received: 45
Samples Analyzed: 45
Method: EPA/600/R-93/116
& EPA/600/M4-82-020

Lab ID: 17061954 **Client Sample #: 52310.000-0042**
Location: OSU - Merryfield hall

Layer 1 of 2 **Description:** White thin sandy/brittle material with layered paint

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Binder/Filler, Sand, Mineral grains	Cellulose 3%	**None Detected ND**
Paint/Binder		

Layer 2 of 2 **Description:** White sandy/brittle material with paint

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Binder/Filler, Sand, Mineral grains	Cellulose 2%	**None Detected ND**

Lab ID: 17061955 **Client Sample #: 52310.000-0043**
Location: OSU - Merryfield hall

Layer 1 of 1 **Description:** Gray sandy/brittle material with layered paint

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Binder/Filler, Sand, Mineral grains	Cellulose 2%	**None Detected ND**
Paint/Binder		

Lab ID: 17061956 **Client Sample #: 52310.000-0044**
Location: OSU - Merryfield hall

Layer 1 of 2 **Description:** White compacted powdery material with paint

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Calcareous particles, Paint	Cellulose 2%	**None Detected ND**

Layer 2 of 2 **Description:** White chalky material with paper

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Binder/Filler, Gypsum/Binder	Cellulose 23%	**None Detected ND**
	Glass fibers 4%	

Sampled by: Client
Analyzed by: Lori Tseng **Date:** 06/23/2017
Reviewed by: Nick Ly **Date:** 06/26/2017

Nick Ly, Technical Director

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Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: PBS Environmental (Eugene)
Address: 2645 Willamette Street Suite A
Eugene, OR 97405

Attention: Mr. David Burrows
Project Location: OSU - Merryfield Hall

Batch #: 1711218.00
Client Project #: 52310.000
Date Received: 6/22/2017
Samples Received: 45
Samples Analyzed: 45
Method: EPA/600/R-93/116
& EPA/600/M4-82-020

Lab ID: 17061957 **Client Sample #: 52310.000-0045**
Location: OSU - Merryfield hall

Layer 1 of 3	**Description:** Tan compressed fibrous material with paint			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Binder/Filler, Paint, Wood flakes	Cellulose	65%	**None Detected ND**
		Wood fibers	9%	
Layer 2 of 3	**Description:** Brown brittle mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Mastic/Binder	Cellulose	6%	**None Detected ND**
Layer 3 of 3	**Description:** White trace compacted powdery material			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Calcareous particles, Binder/Filler	Cellulose	2%	**None Detected ND**

Sampled by: Client
Analyzed by: Lori Tseng **Date:** 06/23/2017
Reviewed by: Nick Ly **Date:** 06/26/2017

Nick Ly, Technical Director

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ASBESTOS LABORATORY SERVICES

Company PBS Environmental (Eugene)
Address 2645 Willamette Street Suite A
Eugene, OR 97405
Project Manager Mr. David Burrows
Phone (541) 686-8684

NVL Batch Number **1711218.00**
TAT 3 Days **AH** No
Rush TAT
Due Date 6/27/2017 **Time** 9:15 AM
Email david.burrows@pbsusa.com
Fax (866) 727-0140

Project Name/Number: 52310.000 **Project Location:** OSU - Merryfield Hall

Subcategory PLM Bulk
Item Code ASB-02 EPA 600/R-93-116 Asbestos by PLM <bulk>

Total Number of Samples 45 Rush Samples

	Lab ID	Sample ID	Description	A/R
1	17061913	52310.000-0001		A
2	17061914	52310.000-0002		A
3	17061915	52310.000-0003		A
4	17061916	52310.000-0004		A
5	17061917	52310.000-0005		A
6	17061918	52310.000-0006		A
7	17061919	52310.000-0007		A
8	17061920	52310.000-0008		A
9	17061921	52310.000-0009		A
10	17061922	52310.000-0010		A
11	17061923	52310.000-0011		A
12	17061924	52310.000-0012		A
13	17061925	52310.000-0013		A
14	17061926	52310.000-0014		A
15	17061927	52310.000-0015		A
16	17061928	52310.000-0016		A
17	17061929	52310.000-0017		A
18	17061930	52310.000-0018		A

	Print Name	Signature	Company	Date	Time
Sampled by	Client				
Relinquished by	Federal Express				

Office Use Only	Print Name	Signature	Company	Date	Time
Received by	Fatima Khan		NVL	6/22/17	0915
Analyzed by	Lori Tseng		NVL	6/23/17	
Results Called by					
☐ **Faxed** ☐ **Emailed**					

Special Instructions:

Date: 6/22/2017
Time: 11:20 AM
Entered By: Mohammed Jamal

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ASBESTOS LABORATORY SERVICES

Company PBS Environmental (Eugene)
Address 2645 Willamette Street Suite A
Eugene, OR 97405
Project Manager Mr. David Burrows
Phone (541) 686-8684

NVL Batch Number **1711218.00**
TAT 3 Days **AH** No
Rush TAT
Due Date 6/27/2017 **Time** 9:15 AM
Email david.burrows@pbsusa.com
Fax (866) 727-0140

Project Name/Number: 52310.000 **Project Location:** OSU - Merryfield Hall

Subcategory PLM Bulk
Item Code ASB-02 EPA 600/R-93-116 Asbestos by PLM <bulk>

Total Number of Samples 45 Rush Samples

	Lab ID	Sample ID	Description	A/R
19	17061931	52310.000-0019		A
20	17061932	52310.000-0020		A
21	17061933	52310.000-0021		A
22	17061934	52310.000-0022		A
23	17061935	52310.000-0023		A
24	17061936	52310.000-0024		A
25	17061937	52310.000-0025		A
26	17061938	52310.000-0026		A
27	17061939	52310.000-0027		A
28	17061940	52310.000-0028		A
29	17061941	52310.000-0029		A
30	17061942	52310.000-0030		A
31	17061943	52310.000-0031		A
32	17061944	52310.000-0032		A
33	17061945	52310.000-0033		A
34	17061946	52310.000-0034		A
35	17061947	52310.000-0035		A
36	17061948	52310.000-0036		A

	Print Name	Signature	Company	Date	Time
Sampled by	Client				
Relinquished by	Federal Express				

Office Use Only	Print Name	Signature	Company	Date	Time
Received by	Fatima Khan		NVL	6/22/17	0915
Analyzed by	Lori Tseng		NVL	6/23/17	
Results Called by					
☐ **Faxed** ☐ **Emailed**					

Special Instructions:

Date: 6/22/2017
Time: 11:20 AM
Entered By: Mohammed Jamal

NVL Laboratories, Inc.
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p 206.547.0100 | f 206.634.1936 | www.nvllabs.com

ASBESTOS LABORATORY SERVICES

Company PBS Environmental (Eugene)
Address 2645 Willamette Street Suite A
Eugene, OR 97405
Project Manager Mr. David Burrows
Phone (541) 686-8684

NVL Batch Number **1711218.00**
TAT 3 Days **AH** No
Rush TAT
Due Date 6/27/2017 **Time** 9:15 AM
Email david.burrows@pbsusa.com
Fax (866) 727-0140

Project Name/Number: 52310.000 **Project Location:** OSU - Merryfield Hall

Subcategory PLM Bulk
Item Code ASB-02 EPA 600/R-93-116 Asbestos by PLM <bulk>

Total Number of Samples 45 Rush Samples

	Lab ID	Sample ID	Description	A/R
37	17061949	52310.000-0037		A
38	17061950	52310.000-0038		A
39	17061951	52310.000-0039		A
40	17061952	52310.000-0040		A
41	17061953	52310.000-0041		A
42	17061954	52310.000-0042		A
43	17061955	52310.000-0043		A
44	17061956	52310.000-0044		A
45	17061957	52310.000-0045		A

	Print Name	Signature	Company	Date	Time
Sampled by	Client				
Relinquished by	Federal Express				

Office Use Only	Print Name	Signature	Company	Date	Time
Received by	Fatima Khan		NVL	6/22/17	0915
Analyzed by	Lori Tseng		NVL	6/23/17	
Results Called by					
☐ **Faxed** ☐ **Emailed**					

Special Instructions:

Date: 6/22/2017
Time: 11:20 AM
Entered By: Mohammed Jamal

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ASBESTOS CHAIN OF CUSTODY

1711218

Turn Around Time
- ❑ 1 Hour
- ❑ 2 Hours
- ❑ 4 Hours
- ❑ 2 Days
- ☒ 3 Days
- ❑ 5 Days
- ❑ 10 Days

Please call for TAT less than 24 Hours

Company: PBS Engineering + Environmental
Address: 2645 Willamette St., Ste. A
Eugene, Oregon 97405
Phone: 541-686-8684

Project Manager: David J. Burrows
Cell: (541) 231 - 4072
Email: david.burrows@pbsusa.com
Fax: ( ) -

Project Name/Number: 52310.000
Project Location: OSU - Merryfield Hall

- ❑ PCM Air (NIOSH 7400)
- ☒ PLM (EPA 600/R-93-116)
- ❑ PLM Gravimetry (600/R-93-116)
- ❑ Asbestos Friable/Non-Friable (EPA 600/R-93/116)
- ❑ TEM (NIOSH 7402)
- ❑ EPA 400 Points (600/R-93-116)
- ❑ Asbestos in Vermiculite (EPA 600/R-04/004)
- ❑ TEM (AHERA)
- ❑ Other
- ❑ TEM (EPA Level II Modified)
- ❑ EPA 1000Points (600/R-93-116)
- ❑ Asbestos in Sediment (EPA 1900 Points)

Reporting Instructions
❑ Call ( ) - ❑ Fax ( ) - ☑ Email david.burrows@pbsusa.com

Total Number of Samples 63

	Sample ID	Description	A/R
1	52310.000 - 0001		
2			
3			
4		0001 - 0045	
5	52310.000 - 0063		
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			

	Print Name	Signature	Company	Date	Time
Sampled by	Jack Burgess	Jack Burgess	PBS Eng. & Env.	6/15/17-6/20/17	
Relinquish by	Jack Burgess	Jack Burgess	PBS Eng. & Env.	6/21/17	1600

Office Use Only

	Print Name	Signature	Company	Date	Time
Received by	[illegible]	[illegible]	NVL Labs	6/22/17	9:15am fe
Analyzed by					
Called by					
Faxed/Email by					

45

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ASBESTOS CHAIN OF CUSTODY

1711218

Turn Around Time
- ❑ 1 Hour
- ❑ 2 Hours
- ❑ 4 Hours
- ❑ 2 Days
- X 3 Days
- ❑ 5 Days
- ❑ 10 Days

Please call for TAT less than 24 Hours

Company: PBS Engineering + Environmental
Address: 2645 Willamette St., Ste. A
Eugene, Oregon 97405
Phone: 541-686-8684

Project Manager: David J. Burrows
Cell: (541) 231 - 4072
Email: david.burrows@pbsusa.com
Fax: ( ) -

Project Name/Number: 52310.000
Project Location: OSU - Merryfield Hall

- ❑ PCM Air (NIOSH 7400)
- X PLM (EPA 600/R-93-116)
- ❑ PLM Gravimetry (600/R-93-116)
- ❑ Asbestos Friable/Non-Friable (EPA 600/R-93/116)
- ❑ TEM (NIOSH 7402)
- ❑ EPA 400 Points (600/R-93-116)
- ❑ Asbestos in Vermiculite (EPA 600/R-04/004)
- ❑ TEM (AHERA)
- ❑ TEM (EPA Level II Modified)
- ❑ EPA 1000Points (600/R-93-116)
- ❑ Asbestos in Sediment (EPA 1900 Points)
- ❑ Other

Reporting Instructions
❑ Call ( ) - ❑ Fax ( ) - ☑ Email david.burrows@pbsusa.com

Total Number of Samples 63

	Sample ID	Description	A/R
1	52310.000 - 0001		
2	↓		
3			
4			
5	52310.000 - 0063		
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			

	Print Name	Signature	Company	Date	Time
Sampled by	Jack Burgess	Jack Burgess	PBS Eng. & Env.	6/15/17-6/20/17	
Relinquish by	Jack Burgess	Jack Burgess	PBS Eng. & Env.	6/21/17	1600

Office Use Only

	Print Name	Signature	Company	Date	Time
Received by	Tammatha		NVLabs	6/22/17	9:15am fedex
Analyzed by					
Called by					
Faxed/Email by					

June 23, 2017

David Burrows
PBS Environmental (Eugene)
2645 Willamette Street Suite A
Eugene, OR 97405

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INDUSTRIAL HYGIENE SERVICES
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RE: Bulk Asbestos Fiber Analysis; NVL Batch # 1711221.00

Client Project: 52310.000
Location: OSU - Merryfield hall

Dear Mr. Burrows,

Enclosed please find test results for the 18 sample(s) submitted to our laboratory for analysis on 6/22/2017.

Examination of these samples was conducted for the presence of identifiable asbestos fibers using polarized light microscopy (PLM) with dispersion staining in accordance with both **EPA 600/M4-82-020**, Interim Method for the Determination of Asbestos in Bulk Insulation Samples and **EPA 600/R-93/116** Method for the Determination of Asbestos in Bulk Building Materials.

For samples containing more than one separable layer of materials, the report will include findings for each layer (labeled Layer 1 and Layer 2, etc. for each individual layer). The asbestos concentration in the sample is determined by calibrated visual estimation.

For those samples with asbestos concentrations between 1 and 10 percent based on visual estimation, the EPA recommends a procedure known as point counting (NESHAPS, 40 CFR Part 61). Point counting is a statistically more accurate means of quantification for samples with low concentrations of asbestos.

The detection limit for the calibrated visual estimation is <1%, 400 point counts is 0.25% and 1000 point counts is 0.1%

Samples are archived for two weeks following analysis. Samples that are not retrieved by the client are discarded after two weeks.

Thank you for using our laboratory services. Please do not hesitate to call if there is anything further we can assist you with.

Sincerely,

Lori Tseng, Laboratory Analyst

Enc.: Sample Results

NVLAP Lab Code: 102063-0

1.888.NVL.LABS
1.888.(685.5227)
www.nvllabs.com

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Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: PBS Environmental (Eugene)
Address: 2645 Willamette Street Suite A
Eugene, OR 97405

Attention: Mr. David Burrows
Project Location: OSU - Merryfield hall

Batch #: 1711221.00
Client Project #: 52310.000
Date Received: 6/22/2017
Samples Received: 18
Samples Analyzed: 18
Method: EPA/600/R-93/116 & EPA/600/M4-82-020

Lab ID: 17061976 **Client Sample #: 52310.000-0046**
Location: OSU - Merryfield hall
Comments: Unsure of correct layer sequence.

Layer 1 of 3	**Description:** Brown compressed fibrous material with paint		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Binder/Filler, Paint	Cellulose 80%	**None Detected ND**
Layer 2 of 3	**Description:** White brittle material w/ paint		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Binder/Filler, Calcareous particles, Mineral grains Quartz, Paint	Cellulose 2%	**None Detected ND**
Layer 3 of 3	**Description:** Black asphaltic fibrous material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Asphalt/Binder, Binder/Filler	Cellulose 75%	**None Detected ND**

Lab ID: 17061977 **Client Sample #: 52310.000-0047**
Location: OSU - Merryfield hall

Layer 1 of 2	**Description:** White compacted powdery material with paint		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Calcareous binder, Calcareous particles, Paint	Cellulose <1%	**None Detected ND**
Layer 2 of 2	**Description:** Gray sandy/brittle material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Sand, Calcareous particles, Mineral grains Quartz	Cellulose 2%	**None Detected ND**

Lab ID: 17061978 **Client Sample #: 52310.000-0048**
Location: OSU - Merryfield hall

Sampled by: Client
Analyzed by: Raymond Pacheco **Date:** 06/23/2017
Reviewed by: Lori Tseng **Date:** 06/23/2017

Lori Tseng, Laboratory Analyst

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

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Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: PBS Environmental (Eugene)
Address: 2645 Willamette Street Suite A
Eugene, OR 97405

Attention: Mr. David Burrows
Project Location: OSU - Merryfield hall

Batch #: 1711221.00
Client Project #: 52310.000
Date Received: 6/22/2017
Samples Received: 18
Samples Analyzed: 18
Method: EPA/600/R-93/116 & EPA/600/M4-82-020

Layer 1 of 3	**Description:** White compacted powdery material with paint			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Calcareous binder, Calcareous particles, Paint	Cellulose	<1%	**None Detected ND**
Layer 2 of 3	**Description:** White compacted powdery material with paper			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Calcareous binder, Calcareous particles	Cellulose	10%	**None Detected ND**
Layer 3 of 3	**Description:** White chalky material with paper			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Gypsum/Binder	Cellulose	12%	**None Detected ND**
		Glass fibers	7%	

Lab ID: 17061979 **Client Sample #: 52310.000-0049**
Location: OSU - Merryfield hall

Layer 1 of 1	**Description:** Beige brittle material with paint			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Binder/Filler, Mineral grains, Paint	Cellulose	2%	**None Detected ND**

Lab ID: 17061980 **Client Sample #: 52310.000-0050**
Location: OSU - Merryfield hall

Layer 1 of 1	**Description:** Beige brittle material with paint			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Binder/Filler, Mineral grains, Paint	Cellulose	1%	**None Detected ND**

Lab ID: 17061981 **Client Sample #: 52310.000-0051**
Location: OSU - Merryfield hall

Layer 1 of 1	**Description:** Beige brittle material with paint			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Binder/Filler, Mineral grains, Paint	Cellulose	2%	**None Detected ND**

Sampled by: Client
Analyzed by: Raymond Pacheco **Date:** 06/23/2017
Reviewed by: Lori Tseng **Date:** 06/23/2017

Lori Tseng, Laboratory Analyst

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

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Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: PBS Environmental (Eugene)
Address: 2645 Willamette Street Suite A
Eugene, OR 97405

Attention: Mr. David Burrows
Project Location: OSU - Merryfield hall

Batch #: 1711221.00
Client Project #: 52310.000
Date Received: 6/22/2017
Samples Received: 18
Samples Analyzed: 18
Method: EPA/600/R-93/116
& EPA/600/M4-82-020

Miscellaneous particles

Lab ID: 17061982 **Client Sample #: 52310.000-0052**
Location: OSU - Merryfield hall

Layer 1 of 1 **Description:** Beige brittle material with paint

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Binder/Filler, Mineral grains, Paint	Cellulose 2%	**None Detected ND**

Lab ID: 17061983 **Client Sample #: 52310.000-0053**
Location: OSU - Merryfield hall

Layer 1 of 1 **Description:** Beige brittle material with paint

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Binder/Filler, Mineral grains, Paint	Cellulose 1%	**None Detected ND**

Lab ID: 17061984 **Client Sample #: 52310.000-0054**
Location: OSU - Merryfield hall

Layer 1 of 4 **Description:** Black asphaltic fibrous material with granules

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Asphalt/Binder, Binder/Filler, Granules	Glass fibers 38%	**None Detected ND**
	Cellulose 20%	

Layer 2 of 4 **Description:** Black asphaltic fibrous material

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Asphalt/Binder, Binder/Filler	Glass fibers 36%	**None Detected ND**
	Cellulose 18%	

Layer 3 of 4 **Description:** Brown fibrous material

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Binder/Filler, Perlite	Cellulose 75%	**None Detected ND**

Sampled by: Client
Analyzed by: Raymond Pacheco **Date:** 06/23/2017
Reviewed by: Lori Tseng **Date:** 06/23/2017

Lori Tseng, Laboratory Analyst

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

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Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: PBS Environmental (Eugene)
Address: 2645 Willamette Street Suite A
Eugene, OR 97405

Attention: Mr. David Burrows
Project Location: OSU - Merryfield hall

Batch #: 1711221.00
Client Project #: 52310.000
Date Received: 6/22/2017
Samples Received: 18
Samples Analyzed: 18
Method: EPA/600/R-93/116 & EPA/600/M4-82-020

Layer 4 of 4	**Description:** Black asphaltic fibrous material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Binder/Filler, Asphalt/Binder	Cellulose 80%	**None Detected ND**

Lab ID: 17061985 **Client Sample #: 52310.000-0055**
Location: OSU - Merryfield hall

Layer 1 of 1	**Description:** Black rubbery material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Binder/Filler, Fine grains	Cellulose 2%	**None Detected ND**

Lab ID: 17061986 **Client Sample #: 52310.000-0056**
Location: OSU - Merryfield hall

Layer 1 of 2	**Description:** Black asphaltic fibrous material with granules (on aluminum)		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Asphalt/Binder, Binder/Filler, Granules	Cellulose 60%	**None Detected ND**
Layer 2 of 2	**Description:** Black asphaltic fibrous material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Asphalt/Binder, Binder/Filler	Glass fibers 35%	**None Detected ND**
		Cellulose 19%	

Lab ID: 17061987 **Client Sample #: 52310.000-0057**
Location: OSU - Merryfield hall

Layer 1 of 1	**Description:** Black asphaltic fibrous material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Asphalt/Binder, Binder/Filler	Glass fibers 36%	**None Detected ND**
		Cellulose 21%	

Sampled by: Client
Analyzed by: Raymond Pacheco **Date:** 06/23/2017
Reviewed by: Lori Tseng **Date:** 06/23/2017

Lori Tseng, Laboratory Analyst

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

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Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: PBS Environmental (Eugene)
Address: 2645 Willamette Street Suite A
Eugene, OR 97405

Attention: Mr. David Burrows
Project Location: OSU - Merryfield hall

Batch #: 1711221.00
Client Project #: 52310.000
Date Received: 6/22/2017
Samples Received: 18
Samples Analyzed: 18
Method: EPA/600/R-93/116 & EPA/600/M4-82-020

Lab ID: 17061988 **Client Sample #: 52310.000-0058**
Location: OSU - Merryfield hall

Layer 1 of 2	**Description:** Red brittle material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Binder/Filler, Clay/Binder, Mineral grains	Cellulose 2%	**None Detected ND**
Layer 2 of 2	**Description:** Gray brittle material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Binder/Filler, Mineral grains, Quartz	Cellulose 1%	**None Detected ND**

Lab ID: 17061989 **Client Sample #: 52310.000-0059**
Location: OSU - Merryfield hall

Layer 1 of 2	**Description:** Red brittle material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Binder/Filler, Clay/Binder, Mineral grains	Cellulose 2%	**None Detected ND**
Layer 2 of 2	**Description:** Gray brittle material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Binder/Filler, Mineral grains, Quartz	Cellulose 2%	**None Detected ND**

Lab ID: 17061990 **Client Sample #: 52310.000-0060**
Location: OSU - Merryfield hall

Layer 1 of 2	**Description:** Gray soft material with paint		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Binder/Filler, Fine grains, Paint	Cellulose <1%	**None Detected ND**
Layer 2 of 2	**Description:** Beige brittle material w/ paint		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Binder/Filler, Mineral grains, Paint	Cellulose 1%	**None Detected ND**

Sampled by: Client
Analyzed by: Raymond Pacheco **Date:** 06/23/2017
Reviewed by: Lori Tseng **Date:** 06/23/2017

Lori Tseng, Laboratory Analyst

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

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Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: PBS Environmental (Eugene)
Address: 2645 Willamette Street Suite A
Eugene, OR 97405

Attention: Mr. David Burrows
Project Location: OSU - Merryfield hall

Batch #: 1711221.00
Client Project #: 52310.000
Date Received: 6/22/2017
Samples Received: 18
Samples Analyzed: 18
Method: EPA/600/R-93/116 & EPA/600/M4-82-020

Lab ID: 17061991 **Client Sample #: 52310.000-0061**
Location: OSU - Merryfield hall

Layer 1 of 2	**Description:** Gray soft material with paint			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Binder/Filler, Fine grains, Paint	Cellulose	2%	**None Detected ND**
Layer 2 of 2	**Description:** Beige brittle material w/ paint			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Binder/Filler, Mineral grains, Paint	Cellulose	2%	**None Detected ND**

Lab ID: 17061992 **Client Sample #: 52310.000-0062**
Location: OSU - Merryfield hall
Comments: Unsure of correct layer sequence.

Layer 1 of 4	**Description:** Black crumbly material			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Binder/Filler	None Detected	ND	**None Detected ND**
Layer 2 of 4	**Description:** Trace brown brittle mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Mastic/Binder	Cellulose	2%	**None Detected ND**
Layer 3 of 4	**Description:** Green vinyl			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Vinyl/Binder	Cellulose	2%	**None Detected ND**
Layer 4 of 4	**Description:** Tan compressed fibrous material			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Binder/Filler	Cellulose	90%	**None Detected ND**

Lab ID: 17061993 **Client Sample #: 52310.000-0063**
Location: OSU - Merryfield hall

Sampled by: Client
Analyzed by: Raymond Pacheco **Date:** 06/23/2017
Reviewed by: Lori Tseng **Date:** 06/23/2017

Lori Tseng, Laboratory Analyst

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

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Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: PBS Environmental (Eugene)
Address: 2645 Willamette Street Suite A
Eugene, OR 97405

Attention: Mr. David Burrows
Project Location: OSU - Merryfield hall

Batch #: 1711221.00
Client Project #: 52310.000
Date Received: 6/22/2017
Samples Received: 18
Samples Analyzed: 18
Method: EPA/600/R-93/116 & EPA/600/M4-82-020

Layer 1 of 5	**Description:** Tan woven fibrous material			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Binder/Filler	Cellulose 90%		**None Detected ND**
Layer 2 of 5	**Description:** Brown mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Mastic/Binder	Cellulose 2%		**None Detected ND**
Layer 3 of 5	**Description:** Brown vinyl			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Vinyl/Binder	Cellulose 3%		**None Detected ND**
Layer 4 of 5	**Description:** Brown brittle mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Mastic/Binder	Cellulose 2%		**None Detected ND**
Layer 5 of 5	**Description:** Brown compressed fibrous material			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Binder/Filler	Cellulose 85%		**None Detected ND**

Sampled by: Client
Analyzed by: Raymond Pacheco **Date:** 06/23/2017
Reviewed by: Lori Tseng **Date:** 06/23/2017

Lori Tseng, Laboratory Analyst

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

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ASBESTOS LABORATORY SERVICES

Company PBS Environmental (Eugene)
Address 2645 Willamette Street Suite A
Eugene, OR 97405
Project Manager Mr. David Burrows
Phone (541) 686-8684

NVL Batch Number **1711221.00**
TAT 3 Days **AH** No
Rush TAT
Due Date 6/27/2017 **Time** 9:15 AM
Email david.burrows@pbsusa.com
Fax (866) 727-0140

Project Name/Number: 52310.000 **Project Location:** OSU - Merryfield hall

Subcategory PLM Bulk
Item Code ASB-02 EPA 600/R-93-116 Asbestos by PLM <bulk>

Total Number of Samples 18 Rush Samples

	Lab ID	Sample ID	Description	A/R
1	17061976	52310.000-0046		A
2	17061977	52310.000-0047		A
3	17061978	52310.000-0048		A
4	17061979	52310.000-0049		A
5	17061980	52310.000-0050		A
6	17061981	52310.000-0051		A
7	17061982	52310.000-0052		A
8	17061983	52310.000-0053		A
9	17061984	52310.000-0054		A
10	17061985	52310.000-0055		A
11	17061986	52310.000-0056		A
12	17061987	52310.000-0057		A
13	17061988	52310.000-0058		A
14	17061989	52310.000-0059		A
15	17061990	52310.000-0060		A
16	17061991	52310.000-0061		A
17	17061992	52310.000-0062		A
18	17061993	52310.000-0063		A

	Print Name	Signature	Company	Date	Time
Sampled by	Client				
Relinquished by	Federal Express				

Office Use Only	Print Name	Signature	Company	Date	Time
Received by	Fatima Khan		NVL	6/22/17	0915
Analyzed by	Raymond Pacheco		NVL	6/23/17	
Results Called by					
☐ **Faxed** ☐ **Emailed**					

Special Instructions:

Date: 6/22/2017
Time: 11:34 AM
Entered By: Mohammed Jamal

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ASBESTOS CHAIN OF CUSTODY

1711221

Turn Around Tir
- ❑ 1 Hour
- ❑ 2 Hours
- ❑ 4 Hours
- ❑ 2 Days
- X 3 Days
- ❑ 5 Days
- ❑ 10 Days

Please call for TAT less than 24 Hours

Company PBS Engineering + Environmental
Address 2645 Willamette St., Ste. A
Eugene, Oregon 97405
Phone 541-686-8684

Project Manager David J. Burrows
Cell (541) 231 - 4072
Email david.burrows@pbsusa.com
Fax ( ) -

Project Name/Number 52310.000
Project Location OSU - Merryfield Hall

- ❑ PCM Air (NIOSH 7400)
- X PLM (EPA 600/R-93-116)
- ❑ PLM Gravimetry (600/R-93-116)
- ❑ Asbestos Friable/Non-Friable (EPA 600/R-93/116)
- ❑ TEM (NIOSH 7402)
- ❑ EPA 400 Points (600/R-93-116)
- ❑ Asbestos in Vermiculite (EPA 600/R-04/004)
- ❑ TEM (AHERA)
- ❑ Other
- ❑ TEM (EPA Level II Modified)
- ❑ EPA 1000Points (600/R-93-116)
- ❑ Asbestos in Sediment (EPA 1900 Points)

Reporting Instructions
❑ Call ( ) - ❑ Fax ( ) - ☑ Email david.burrows@pbsusa.com

Total Number of Samples 63

	Sample ID	Description	A/R
1	52310.000 - 0001		
2			
3			
4		0046 - 0063	
5	52310.000 - 0063		
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			

	Print Name	Signature	Company	Date	Time
Sampled by	Jack Burgess	Jack Burgess	PBS Eng. & Env.	6/15/17-6/20/17	
Relinquish by	Jack Burgess	Jack Burgess	PBS Eng. & Env.	6/21/17	1600

Office Use Only

	Print Name	Signature	Company	Date	Time
Received by	[illegible]	[illegible]	NVL Labs	6/22/17	9:15am fe
Analyzed by					
Called by					
Faxed/Email by					

July 19, 2017

David Burrows
PBS Environmental (Eugene)
2645 Willamette Street Suite A
Eugene, OR 97405

NVL LABS
INDUSTRIAL HYGIENE SERVICES
Laboratory | Management | Training

RE: Bulk Asbestos Fiber Analysis; NVL Batch # 1712694.01

Client Project: 52310.000
Location: Merryfield Hall

Dear Mr. Burrows,

Enclosed please find test results for the 12 sample(s) submitted to our laboratory for analysis on 7/17/2017.

Examination of these samples was conducted for the presence of identifiable asbestos fibers using polarized light microscopy (PLM) with dispersion staining in accordance with both **EPA 600/M4-82-020**, Interim Method for the Determination of Asbestos in Bulk Insulation Samples and **EPA 600/R-93/116** Method for the Determination of Asbestos in Bulk Building Materials.

For samples containing more than one separable layer of materials, the report will include findings for each layer (labeled Layer 1 and Layer 2, etc. for each individual layer). The asbestos concentration in the sample is determined by calibrated visual estimation.

For those samples with asbestos concentrations between 1 and 10 percent based on visual estimation, the EPA recommends a procedure known as point counting (NESHAPS, 40 CFR Part 61). Point counting is a statistically more accurate means of quantification for samples with low concentrations of asbestos.

The detection limit for the calibrated visual estimation is <1%, 400 point counts is 0.25% and 1000 point counts is 0.1%

Samples are archived for two weeks following analysis. Samples that are not retrieved by the client are discarded after two weeks.

Thank you for using our laboratory services. Please do not hesitate to call if there is anything further we can assist you with.

Sincerely,

Nick Ly, Technical Director

Enc.: Sample Results

NVLAP Lab Code: 102063-0

1.888.NVL.LABS
1.888.(685.5227)
www.nvllabs.com

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Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: PBS Environmental (Eugene)
Address: 2645 Willamette Street Suite A
Eugene, OR 97405

Attention: Mr. David Burrows
Project Location: Merryfield Hall

Batch #: 1712694.01
Client Project #: 52310.000
Date Received: 7/17/2017
Samples Received: 12
Samples Analyzed: 12
Method: EPA/600/R-93/116
& EPA/600/M4-82-020

Lab ID: 17070068 **Client Sample #: 52310.000-0064**
Location: Merryfield Hall

Layer 1 of 2	**Description:** White compacted powdery material with paint			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Calcareous binder, Paint	None Detected	ND	**None Detected ND**
Layer 2 of 2	**Description:** Off-white compacted powdery material with paper			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Calcareous binder, Binder/Filler	None Detected	ND	**Chrysotile 3%**

Lab ID: 17070069 **Client Sample #: 52310.000-0065**
Location: Merryfield Hall

Layer 1 of 2	**Description:** White compacted powdery material with paint			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Calcareous binder, Paint	Cellulose	<1%	**None Detected ND**
Layer 2 of 2	**Description:** White chalky material with paper			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Gypsum/Binder, Binder/Filler	Cellulose	10%	**None Detected ND**

Lab ID: 17070070 **Client Sample #: 52310.000-0066**
Location: Merryfield Hall

Layer 1 of 3	**Description:** White compacted powdery material with paint			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Calcareous binder, Paint	None Detected	ND	**None Detected ND**
Layer 2 of 3	**Description:** White compacted powdery material with paper			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Calcareous binder, Binder/Filler	None Detected	ND	**None Detected ND**

Sampled by: Client
Analyzed by: Welly Hsieh **Date:** 07/18/2017
Reviewed by: Nick Ly **Date:** 07/19/2017

Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

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Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: PBS Environmental (Eugene)
Address: 2645 Willamette Street Suite A
Eugene, OR 97405

Attention: Mr. David Burrows
Project Location: Merryfield Hall

Batch #: 1712694.01
Client Project #: 52310.000
Date Received: 7/17/2017
Samples Received: 12
Samples Analyzed: 12
Method: EPA/600/R-93/116 & EPA/600/M4-82-020

Layer 3 of 3	**Description:** White chalky material with paper			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Gypsum/Binder, Binder/Filler	Cellulose	6%	**None Detected ND**

Lab ID: 17070071 **Client Sample #: 52310.000-0067**
Location: Merryfield Hall

Layer 1 of 2	**Description:** White compacted powdery material with paint			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Calcareous binder, Paint	None Detected	ND	**None Detected ND**
Layer 2 of 2	**Description:** White chalky material with paper			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Gypsum/Binder, Binder/Filler	Cellulose	5%	**None Detected ND**

Lab ID: 17070072 **Client Sample #: 52310.000-0068**
Location: Merryfield Hall

Layer 1 of 2	**Description:** White compacted powdery material with paint and mesh			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Calcareous binder, Binder/Filler, Paint	Glass fibers	18%	**None Detected ND**
Layer 2 of 2	**Description:** White chalky material with paper			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Gypsum/Binder, Binder/Filler	Cellulose	4%	**None Detected ND**

Lab ID: 17070073 **Client Sample #: 52310.000-0069**
Location: Merryfield Hall

Layer 1 of 2	**Description:** White compacted powdery material with paint and mesh			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Calcareous binder, Binder/Filler, Paint	Glass fibers	15%	**None Detected ND**

Sampled by: Client
Analyzed by: Welly Hsieh **Date:** 07/18/2017
Reviewed by: Nick Ly **Date:** 07/19/2017

Nick Ly, Technical Director

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Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: PBS Environmental (Eugene)
Address: 2645 Willamette Street Suite A
Eugene, OR 97405

Attention: Mr. David Burrows
Project Location: Merryfield Hall

Batch #: 1712694.01
Client Project #: 52310.000
Date Received: 7/17/2017
Samples Received: 12
Samples Analyzed: 12
Method: EPA/600/R-93/116 & EPA/600/M4-82-020

Layer 2 of 2 **Description:** Off-white chalky material with paper

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Gypsum/Binder, Binder/Filler	Cellulose 3%	**None Detected ND**
	Glass fibers 2%	

Lab ID: 17070074 Client Sample #: 52310.000-0070

Location: Merryfield Hall

Layer 1 of 3 **Description:** Tan linoleum

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Linoleum/Binder	Cellulose 23%	**None Detected ND**

Layer 2 of 3 **Description:** Tan woven fibrous material with mastic

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Binder/Filler, Mastic/Binder	Cellulose 86%	**None Detected ND**

Layer 3 of 3 **Description:** Gray fibrous backing with mastic

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Binder/Filler, Mastic/Binder	Cellulose 31%	**None Detected ND**
	Synthetic fibers 22%	

Lab ID: 17070075 Client Sample #: 52310.000-0071

Location: Merryfield Hall

Layer 1 of 2 **Description:** Tan woven fibrous material with black asphaltic material over wire

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Binder/Filler, Asphalt/Binder, Fine particles	Cellulose 63%	**None Detected ND**
Wire		

Sampled by: Client
Analyzed by: Welly Hsieh **Date:** 07/18/2017
Reviewed by: Nick Ly **Date:** 07/19/2017

Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

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Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: PBS Environmental (Eugene)
Address: 2645 Willamette Street Suite A
Eugene, OR 97405

Attention: Mr. David Burrows
Project Location: Merryfield Hall

Batch #: 1712694.01
Client Project #: 52310.000
Date Received: 7/17/2017
Samples Received: 12
Samples Analyzed: 12
Method: EPA/600/R-93/116 & EPA/600/M4-82-020

Layer 2 of 2 **Description:** Black asphaltic material over wire

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Asphalt/Binder, Wire	None Detected ND	**None Detected ND**

Lab ID: 17070076 **Client Sample #: 52310.000-0072**
Location: Merryfield Hall

Layer 1 of 1 **Description:** Off-white woven fibrous material with black asphaltic material

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Binder/Filler, Asphalt/Binder, Fine particles	Cellulose 62%	**None Detected ND**

Lab ID: 17070077 **Client Sample #: 52310.000-0073**
Location: Merryfield Hall

Layer 1 of 1 **Description:** Off-white fibrous material with mastic over wire

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Binder/Filler, Mastic/Binder, Wire	Cellulose 67%	**None Detected ND**

Lab ID: 17070078 **Client Sample #: 52310.000-0074**
Location: Merryfield Hall

Layer 1 of 4 **Description:** Green woven fibrous material with paint

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Binder/Filler, Paint	Cellulose 71%	**None Detected ND**

Layer 2 of 4 **Description:** Black asphaltic material over wire

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Asphalt/Binder, Wire	None Detected ND	**None Detected ND**

Layer 3 of 4 **Description:** Tan woven fibrous material

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Binder/Filler	Cellulose 75%	**None Detected ND**

Sampled by: Client
Analyzed by: Welly Hsieh **Date:** 07/18/2017
Reviewed by: Nick Ly **Date:** 07/19/2017

Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

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Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: PBS Environmental (Eugene)
Address: 2645 Willamette Street Suite A
Eugene, OR 97405

Attention: Mr. David Burrows
Project Location: Merryfield Hall

Batch #: 1712694.01
Client Project #: 52310.000
Date Received: 7/17/2017
Samples Received: 12
Samples Analyzed: 12
Method: EPA/600/R-93/116
& EPA/600/M4-82-020

Layer 4 of 4 **Description:** Black asphaltic material over wire

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Asphalt/Binder, Wire	None Detected ND	**None Detected ND**

Lab ID: 17070079 **Client Sample #: 52310.000-0075**

Location: Merryfield Hall

Layer 1 of 1 **Description:** Tan woven fibrous material with black asphaltic material

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Binder/Filler, Asphalt/Binder, Wood flakes	Cellulose 62%	**None Detected ND**

Sampled by: Client
Analyzed by: Welly Hsieh **Date:** 07/18/2017
Reviewed by: Nick Ly **Date:** 07/19/2017

Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

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ASBESTOS LABORATORY SERVICES

Company PBS Environmental (Eugene)
Address 2645 Willamette Street Suite A
Eugene, OR 97405
Project Manager Mr. David Burrows
Phone (541) 686-8684

NVL Batch Number **1712694.00**
TAT 2 Days **AH** No
Rush TAT
Due Date 7/19/2017 **Time** 9:00 AM
Email david.burrows@pbsusa.com
Fax (866) 727-0140

Project Name/Number: 52310.000 **Project Location:** Merryfield Hall

Subcategory PLM Bulk
Item Code ASB-02 EPA 600/R-93-116 Asbestos by PLM <bulk>

Total Number of Samples 12 Rush Samples

	Lab ID	Sample ID	Description	A/R
1	17070068	52310.000-0064		A
2	17070069	52310.000-0065		A
3	17070070	52310.000-0066		A
4	17070071	52310.000-0067		A
5	17070072	52310.000-0068		A
6	17070073	52310.000-0069		A
7	17070074	52310.000-0070		A
8	17070075	52310.000-0071		A
9	17070076	52310.000-0072		A
10	17070077	52310.000-0073		A
11	17070078	52310.000-0074		A
12	17070079	52310.000-0075		A

	Print Name	Signature	Company	Date	Time
Sampled by	Client				
Relinquished by	Federal Express				

Office Use Only	Print Name	Signature	Company	Date	Time
Received by	Soumeya Benzina		NVL	7/17/17	900
Analyzed by	Welly Hsieh		NVL	7/18/17	
Results Called by					
☐ **Faxed** ☐ **Emailed**					

Special Instructions: Final will be placed on hold until we receive a project name, number, or location.

Date: 7/17/2017
Time: 11:03 AM
Entered By: Soumeya Benzina

1712694

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ASBESTOS CHAIN OF CUSTODY

Turn Around Time
- ❑ 1 Hour
- ❑ 2 Hours
- ❑ 4 Hours
- ❑ 24 Hours
- ☒ 2 Days
- ❑ 3 Days
- ❑ 4 Days
- ❑ 5 Days
- ❑ 10 Days

Please call for TAT less than 24 Hours

Company PBS
Address 2645 Willamette St Ste A
Phone 541-686-8684

Project Manager DJ Burrows
Cell (541) 231-4072
Email david.burrows@pbsusa.com
Fax ( ) -

Project Name/Number	Project Location

- ❑ PCM Air (NIOSH 7400)
- ☒ PLM (EPA 600/R-93-116)
- ❑ PLM Gravimetry (600/R-93-116)
- ❑ Asbestos Friable/Non-Friable (EPA 600/R-93/116)
- ❑ TEM (NIOSH 7402)
- ❑ EPA 400 Points (600/R-93-116)
- ❑ Asbestos in Vermiculite (EPA 600/R-04/004)
- ❑ TEM (AHERA)
- ❑ Other
- ❑ TEM (EPA Level II Modified)
- ❑ EPA 1000Points (600/R-93-116)
- ❑ Asbestos in Sediment (EPA 1900 Points)

Reporting Instructions
❑ Call ( ) - ❑ Fax ( ) - ☒ Email above

Total Number of Samples

	Sample ID	Description	A/R
1	52310.000-0064		
2	-0065		
3	-0066		
4	-0067		
5	-0068		
6	-0069		
7	-0070		
8	-0071		
9	-0072		
10	-0073		
11	-0074		
12	52310.000-0075		
13			
14			
15			

	Print Name	Signature	Company	Date	Time
Sampled by	DJ Burrows	DJ Burrows	PBS	7/13/17	1600
Relinquish by	DJ Burrows	DJ Burrows	PBS	7/13/17	1700

Office Use Only

	Print Name	Signature	Company	Date	Time
Received by	Soumeya B		NVL	7/17/17	855
Analyzed by					
Called by					
Faxed/Email by					

4708 Aurora Ave N, Seattle, WA 98103 | p 206.547.0100 | f 206.634.1936 | www.nvllabs.com

June 23, 2017

David Burrows
PBS Environmental (Eugene)
2645 Willamette Street Suite A
Eugene, OR 97405

NVL LABS
INDUSTRIAL HYGIENE SERVICES
Laboratory | Management | Training

RE: Metals Analysis; NVL Batch # 1711232.00

Dear Mr. Burrows,

Enclosed please find the test results for samples submitted to our laboratory for analysis. Preparation of these samples was conducted following protocol outlined in EPA Method SW 846 -3051 unless stated otherwise. Analysis of these samples was performed using analytical instruments in accordance with U.S. EPA, NIOSH, OSHA and other ASTM methods.

For matrix materials submitted as paint, dust wipe, soil or TCLP samples, analysis for the presence of total metals is conducted using published U.S. EPA Methods. Paint and soil results are usually expressed in mg/Kg which is equivalent to parts per million (ppm). Lead (Pb) in paint is usually expressed in mg/Kg (ppm) , Percent (%) or mg/cm^2 by area. Dust wipe sample results are usually expressed in ug/wipe and ug/ft^2. TCLP samples are reported in mg/L (ppm). For air filter samples, analyses are conducted using NIOSH and OSHA Methods. Results are expressed in ug/filter and ug/m^3. Other matrix materials are analyzed accordingly using published methods or specified by client. The reported test results pertain only to items tested and are not blank corrected.

For recent regulation updates pertaining to current regulatory levels or permissible exposure levels, please call your local regulatory agencies for more details.

This report is considered highly confidential and will not be released without your approval. Samples are archived for two weeks following analysis. Samples that are not retrieved by the client are discarded after two weeks.

Thank you for using our laboratory services. if you need further assistance please feel free to call us at 206-547-0100 or 1-888-NVLLABS.

Sincerely,

Nick Ly, Technical Director

ilac-MRA
AIHA LAP, LLC
ACCREDITED LABORATORY
INDUSTRIAL HYGIENE & ENVIRONMENTAL LEAD
ISO/IEC 17025:2005
WWW.AIHAACCREDITEDLABS.ORG
LAB # 101861

NVL Laboratories, Inc.
4708 Aurora Ave N, Seattle, WA 98103
p 206.547.0100 | f 206.634.1936 | www.nvllabs.com

Analysis Report

Total Lead (Pb)

Client: PBS Environmental (Eugene)
Address: 2645 Willamette Street Suite A
Eugene, OR 97405

Attention: Mr. David Burrows
Project Location: OSU- Merryfield Hall

Batch #: 1711232.00
Matrix: Paint
Method: EPA 3051/7000B
Client Project #: 52310.000
Date Received: 6/22/2017
Samples Received: 13
Samples Analyzed: 13

Lab ID	Client Sample #	Sample Weight (g)	RL in mg/Kg	Results in mg/Kg	Results in percent
17062119	52310.000-1001	0.2002	50.0	180000.0	18.0000
17062120	52310.000-1002	0.1851	54.0	2200.0	0.2200
17062121	52310.000-1003	0.1888	53.0	19000.0	1.9000
17062122	52310.000-1004	0.1876	53.0	1800.0	0.1800
17062123	52310.000-1005	0.1846	54.0	37000.0	3.7000
17062124	52310.000-1006	0.1877	53.0	200000.0	20.0000
17062125	52310.000-1007	0.1991	50.0	170000.0	17.0000
17062126	52310.000-1008	0.1857	54.0	3400.0	0.3400
17062127	52310.000-1009	0.1955	51.0	110000.0	11.0000
17062128	52310.000-1010	0.1999	50.0	54000.0	5.4000
17062129	52310.000-1011	0.1957	51.0	100.0	0.0100
17062130	52310.000-1012	0.1896	53.0	190.0	0.0190
17062131	52310.000-1013	0.1871	53.0	1400.0	0.1400

Sampled by: Client
Analyzed by: Yasuyuki Hida
Reviewed by: Nick Ly

Date Analyzed: 06/22/2017
Date Issued: 06/23/2017

Nick Ly, Technical Director

mg/ Kg =Milligrams per kilogram
Percent = Milligrams per kilogram / 10000
Note : Method QC results are acceptable unless stated otherwise.
Unless otherwise indicated, the condition of all samples was acceptable at time of receipt.

RL = Reporting Limit
'<' = Below the reporting Limit

Bench Run No: 2017-0622-8

NVL Laboratories, Inc.
4708 Aurora Ave N, Seattle, WA 98103
p 206.547.0100 | f 206.634.1936 | www.nvllabs.com

LEAD LABORATORY SERVICES

Company PBS Environmental (Eugene)
Address 2645 Willamette Street Suite A
Eugene, OR 97405
Project Manager Mr. David Burrows
Phone (541) 686-8684

NVL Batch Number 1711232.00
TAT 3 Days **AH** No
Rush TAT
Due Date 6/27/2017 **Time** 9:25 AM
Email david.burrows@pbsusa.com
Fax (866) 727-0140

Project Name/Number: 52310.000 **Project Location:** OSU- Merryfield Hall

Subcategory Flame AA (FAA)
Item Code FAA-02 EPA 7000B Lead by FAA <paint>

Total Number of Samples 13 Rush Samples

	Lab ID	Sample ID	Description	A/R
1	17062119	52310.000-1001		A
2	17062120	52310.000-1002		A
3	17062121	52310.000-1003		A
4	17062122	52310.000-1004		A
5	17062123	52310.000-1005		A
6	17062124	52310.000-1006		A
7	17062125	52310.000-1007		A
8	17062126	52310.000-1008		A
9	17062127	52310.000-1009		A
10	17062128	52310.000-1010		A
11	17062129	52310.000-1011		A
12	17062130	52310.000-1012		A
13	17062131	52310.000-1013		A

	Print Name	Signature	Company	Date	Time
Sampled by	Client				
Relinquished by	Federal Express				

Office Use Only	Print Name	Signature	Company	Date	Time
Received by	Fatima Khan		NVL	6/22/17	0925
Analyzed by	Yasuyuki Hida		NVL	6/22/17	
Results Called by					
☐ **Faxed** ☐ **Emailed**					

Special Instructions:

Date: 6/22/2017
Time: 12:41 PM
Entered By: Umer Khan

1711232

NVL LABS INDUSTRIAL HYGIENE SERVICES
Laboratory | Management | Training

METALS CHAIN OF CUSTODY

Turn Around Time
- ❑ 2 Hour ❑ 4 Hours ❑ 24 Hours
- ❑ 2 Days ☒ 3 Days ❑ 4 Days
- ❑ 5 Days ❑ 6-10 Days
- Please call for TAT less than 24 Hours

Company: PBS Engineering + Environmental
Address: 2645 Willamette St., Ste. A
Eugene, Oregon 97405
Phone: 541-686-8684

Project Manager: David J. Burrows
Cell: (541) 231 - 4072
Email: david.burrows@pbsusa.com
Fax: ( ) -

Project Name/Number: 52310.000
Project Location: OSU - Merryfield Hall

- ❑ Total Metals
- ❑ TCLP
- ☒ FAA (ppm)
- ❑ GFAA (ppb)
- ❑ CVAA (ppb)
- ❑ ICP (PPM)
- ❑ Air Filter
- ❑ Paint Chips (cm)
- ☒ Paint Chips (%)
- ❑ Dust Wipes
- ❑ Drinking Water
- ❑ Waste Water
- ❑ Soil
- ❑ Other

RCRA 8
- ❑ Barium ❑ Chromium ❑ Silver
- ❑ Arsenic ❑ Mercury ☒ Lead
- ❑ Selenium ❑ Cadmium

RCRA 11
- ❑ Copper
- ❑ Zinc
- ❑ Other

Reporting Instructions
❑ Call ( ) - ❑ Fax ( ) - ☑ Email david.burrows@pbsusa.com

Total Number of Samples 13

	Sample ID	Description	A/R
1	52310.000 - 1001		
2	52310.000 - 1002		
3	52310.000 - 1003		
4	52310.000 - 1004		
5	52310.000 - 1005		
6	52310.000 - 1006		
7	52310.000 - 1007		
8	52310.000 - 1008		
9	52310.000 - 1009		
10	52310.000 - 1010		
11	52310.000 - 1011		
12	52310.000 - 1012		
13	52310.000 - 1013		
14			
15			

	Print Name	Signature	Company	Date	Time
Sampled by	Jack Burgess	Jack Burgess	PBS Eng. & Env.	6/20/17	
Relinquish by	Jack Burgess	Jack Burgess	PBS Eng. & Env.	6/21/17	1600

Office Use Only

	Print Name	Signature	Company	Date	Time
Received by	Tillmatta		NVLabs	6/22/17	9:25 am/pm
Analyzed by					
Called by					
Faxed/Email by					

THIS IS TO CERTIFY THAT

JACK BURGESS

HAS SUCCESSFULLY COMPLETED THE TRAINING COURSE

for

ASBESTOS INSPECTOR / MANAGEMENT PLANNER REFRESHER

In accordance with TSCA Title II, Part 763, Subpart E, Appendix C of 40 CFR

Course Date: 04/20/2017

Course Location: Eugene, OR

Certificate: IMR-17-6994A

PBS

AHERA is the Asbestos Hazard Emergency Response Act enacting Title II of Toxic Substance Control Act (TSCA)

Expiration Date: 04/20/2018

For verification of the authenticity of this certificate contact:
PBS Environmental
4412 SW Corbett Avenue
Portland, OR 97239
(503) 248-1939

Greg Baker, Instructor

THIS IS TO CERTIFY THAT

DAVID BURROWS

HAS SUCCESSFULLY COMPLETED THE TRAINING COURSE

for

ASBESTOS INSPECTOR REFRESHER

In accordance with TSCA Title II, Part 763, Subpart E, Appendix C of 40 CFR

Course Date: 04/20/2017

Course Location: Eugene, OR

Certificate: IR-17-9405A

PBS

AHERA is the Asbestos Hazard Emergency Response Act enacting Title II of Toxic Substance Control Act (TSCA)

Expiration Date: 04/20/2018

For verification of the authenticity of this certificate contact:
PBS Environmental
4412 SW Corbett Avenue
Portland, OR 97239
(503) 248-1939

Greg Baker, Instructor